

## SEQUENCE LISTING

&lt;110&gt; Conjuchem, Inc.

Bridon, Dominique

Ezrin, Alan

Milner, Peter

Holmes, Darren

Thibaudeau, Karen

<120> PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM  
PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD  
COMPONENTS

&lt;130&gt; 2110

&lt;140&gt;

&lt;141&gt;

&lt;150&gt; 60/134,406

&lt;151&gt; 1999-05-17

&lt;150&gt; 60/153,406

&lt;151&gt; 1999-09-10

&lt;150&gt; 60/159,783

&lt;151&gt; 1999-10-18

&lt;160&gt; 1617

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1

His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys Arg Arg Pro Val Lys  
1 5 10 15

Val Tyr Pro

<210> 2  
<211> 8  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 2  
Met Glu His Phe Arg Trp Gly Lys  
1 5

<210> 3  
<211> 39  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 3  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
1 5 10 15  
Arg Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala  
20 25 30

Glu Ala Phe Pro Leu Glu Phe  
35

<210> 4  
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<220>  
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Peptide

<400> 4  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val  
1 5 10

<210> 5  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 5  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
1 5 10 15

<210> 6  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 6  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
1 5 10 15

Arg

<210> 7  
<211> 24  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 7  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
1 5 10 15

Arg Arg Pro Val Lys Val Tyr Pro  
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<210> 8  
<211> 7  
<212> PRT  
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 8  
Met Glu His Phe Arg Trp Gly  
1 5

<210> 9  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 9  
Phe Arg Trp Gly Lys Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val  
1 5 10 15  
Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro Leu Glu  
20 25 30

<210> 10  
<211> 22  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 10  
Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu  
1 5 10 15

Ala Phe Pro Leu Glu Phe



<210> 11  
 <211> 39  
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<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 11  
 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
 1 5 10 15

Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala Glu Asn Glu Ser Ala  
 20 25 30

Glu Ala Phe Pro Leu Glu Phe  
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<210> 12  
 <211> 28  
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<220>  
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<400> 12  
 Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala  
 1 5 10 15

Glu Asn Glu Ser Ala Glu Ala Phe Pro Leu Glu Phe  
 20 25

<210> 13  
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 <212> PRT  
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<220>  
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<400> 13

Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro Leu  
1 5 10 15

Glu Phe

<210> 14

<211> 39

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 14

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
1 5 10 15

Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala Glu Asn Glu Ser Ala  
20 25 30

Glu Ala Phe Pro Leu Glu Phe  
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<210> 15

<211> 28

<212> PRT

<213> Artificial Sequence

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Peptide

<400> 15

Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala  
1 5 10 15

Glu Asn Glu Ser Ala Glu Ala Phe Pro Leu Glu Phe  
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<210> 16

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 16

Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro Leu  
1 5 10 15

Glu Phe

<210> 17

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 17

Val Cys Ser Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val  
1 5 10 15

Gly Asn Cys Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg  
20 25 30

Val

<210> 18

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 18

Gly Ile Cys Ala Cys Arg Arg Arg Phe Cys Pro Asn Ser Glu Arg Phe  
1 5 10 15

Ser Gly Tyr Cys Arg Val Asn Gly Ala Arg Tyr Val Arg Cys Cys Ser  
 20 25 30

Arg Arg

<210> 19  
 <211> 5  
 <212> PRT  
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<400> 19  
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<210> 20  
 <211> 5  
 <212> PRT  
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<220>  
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<400> 20  
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<210> 21  
 <211> 17  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 21  
 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys  
 1 5 10 15

Arg

<210> 22

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 22

Arg Lys Tyr Val Met Gly His Phe Arg Trp Asp Arg Phe Gly Arg Arg  
1 5 10 15

Asn Ser Ser Ser Ser Gly Ser Ser Gly Ala Gly Gln Lys Arg  
20 25 30

<210> 23

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 23

Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu Arg  
1 5 10 15

Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu  
20 25 30

Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser  
35 40

<210> 24

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 24

Leu Ser Arg Leu Phe Asp Asn Ala

1

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<210> 25

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 25

Cys Glu His Arg Trp Cys Lys Pro Val

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<210> 26

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 26

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val

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<210> 27

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 27

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val

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<210> 28  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 28  
Asp Glu Gly Pro Tyr Lys Met Glu His Phe Arg Trp Gly Ser Pro Pro  
1 5 10 15

Lys Asp

<210> 29  
<211> 13  
<212> PRT  
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Peptide

<400> 29  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val  
1 5 10

<210> 30  
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Peptide

<400> 30  
Ser Tyr Ser Met Glu His Arg Trp Gly Lys Pro Val  
1 5 10

<210> 31  
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<212> PRT

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 31

Tyr Val Met Gly His Phe Arg Trp Asp Arg Phe  
1 5 10

<210> 32

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 32

Lys Tyr Val Met Gly His Phe Arg Trp Asp Arg Phe  
1 5 10

<210> 33

<211> 3

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 33

Pro Leu Gly  
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<210> 34

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide



<400> 34

Asp His Phe Arg Trp Lys

1 5

<210> 35

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 35

Ser Tyr Ser Glu His Phe Arg Trp Gly Lys Pro Val

1 5 10

<210> 36

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 36

Ser Tyr Ser Glu His Phe Arg Trp Gly Lys Pro Val

1 5 10

<210> 37

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 37

Glu His Phe Arg Trp Gly

1 5

<210> 38  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 38  
Ala Glu Lys Lys Asp Glu Gly Pro Tyr Arg Met Glu His Phe Arg Trp  
1 5 10 15

Gly Ser Pro Pro Lys Asp  
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<210> 39  
<211> 12  
<212> PRT  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 39  
Tyr Val Met Gly His Phe Arg Trp Asp Arg Phe Gly  
1 5 10

<210> 40  
<211> 7  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 40  
Tyr Ile Gln Asn Pro Leu Gly  
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<210> 41  
<211> 9  
<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 41

Cys Tyr Ile Gln Asn Cys Pro Leu Gly

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<210> 42

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 42

Tyr Ile Thr Asn Cys Pro Tyr

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<210> 43

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 43

Cys Tyr Ile Gln Asn Cys

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<210> 44

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 44

Cys Tyr Ile Gln Asn Cys Pro Leu Gly

1

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<210> 45

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 45

Met Asn Ile Lys Gly Ser Pro Trp Lys

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<210> 46

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 46

Tyr Phe Gln Asn Pro Arg Gly

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<210> 47

<211> 7

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 47

Tyr Ile Gln Asn Pro Arg Gly

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<210> 48

<211> 9  
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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 48

Cys Tyr Phe Gln Asn Cys Pro Lys Gly  
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<210> 49

<211> 6

<212> PRT

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<400> 49

Cys Tyr Phe Gln Asn Cys  
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<210> 50

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 50

Tyr Phe Val Asn Cys Pro Gly  
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<210> 51

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 51

Tyr Phe Gln Asn Cys Pro Arg

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<210> 52

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 52

Cys Tyr Phe Gln Asn Cys Pro Arg Gly

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<210> 53

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 53

Cys Tyr Phe Gln Asn Cys Pro Arg

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<210> 54

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 54

Cys Tyr Phe Gln Asn Cys Pro Arg Gly

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<210> 55  
<211> 8  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 55

Tyr Phe Gln Asn Cys Pro Arg Gly  
1 5

<210> 56  
<211> 8  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 56

Tyr Phe Gln Asn Cys Pro Arg Gly  
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<210> 57  
<211> 8  
<212> PRT  
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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 57

Ala Phe Gln Asn Cys Pro Arg Gly  
1 5

<210> 58  
<211> 7  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 58

Tyr Phe Val Asn Cys Pro Gly

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<210> 59

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 59

Tyr Phe Gln Asn Cys Pro Arg Tyr

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<210> 60

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 60

Ile Phe Ile Asn Cys Pro Arg

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<210> 61

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 61

Tyr Phe Val Asn Cys Pro Arg Gly



1

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<210> 62

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 62

Tyr Phe Gln Asn Cys Pro Arg Gly

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<210> 63

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

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Glu Asn Cys Cys Pro Arg

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<210> 64

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 64

Phe Phe Ile Asn Cys Pro Arg Ala

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<210> 65

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 65

Tyr Phe Gln Asn Cys Pro Lys  
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<210> 66

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 66

Phe Phe Ile Asn Cys Pro Arg Ala  
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<210> 67

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 67

Cys Tyr Phe Gln Asn Cys Pro Lys Gly  
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<210> 68

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 68

Tyr Phe Val Asn Cys Pro Gly

1

5

<210> 69

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 69

Cys Phe Ile Gln Asn Cys Pro Gly

1

5

<210> 70

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 70

Cys Tyr Ile Gln Asn Cys Pro Arg Gly

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<210> 71

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 71

Tyr Ile Gln Asn Cys Pro Gly

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<210> 72

<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 72  
Ser Glu Ala Ala Ala Leu Pro Arg Ala Ser Ala Ala Ala Met Arg Ala  
1 5 10 15  
Ala Trp Pro Ser Pro Ser Val Glu Gly  
20 25

<210> 73  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 73  
Phe His Leu Leu Arg Glu Val Leu Glu Ala Arg Ala Glu Gln Leu Ala  
1 5 10 15  
Gln Glu Ala His Lys Asn Arg Lys Leu Glu Ile Ile  
20 25

<210> 74  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 74  
Phe His Leu Leu Arg Glu Met Leu Glu Met Ala Lys Ala Glu Gln Glu  
1 5 10 15  
Ala Glu Gln Ala Ala Leu Asn Arg Leu Leu Leu Glu Glu Ala  
20 25 30

<210> 75  
<211> 41  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 75  
Ser Gln Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Met Thr Lys Ala Asp Gln Leu Ala Gln Gln Ala His  
20 25 30  
Asn Asn Arg Lys Leu Leu Asp Ile Ala  
35 40

<210> 76  
<211> 41  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 76  
Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln Ala His  
20 25 30

Ser Asn Arg Lys Leu Met Glu Ile Ile  
35 40

<210> 77  
<211> 41  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 77

Ser Gln Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Met Thr Lys Ala Asp Gln Leu Ala Gln Gln Ala His  
20 25 30

Ser Asn Arg Lys Leu Leu Asp Ile Ala  
35 40

<210> 78

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 78

Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln Ala His  
20 25 30

Ser Asn Arg Lys Leu Met Glu Asn Phe  
35 40

<210> 79

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 79

Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Cys

<210> 80  
 <211> 33  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 80  
 Asp Leu Thr Phe His Leu Leu Arg Glu Met Leu Glu Met Ala Lys Ala  
           1                  5                  10                  15  
 Glu Gln Glu Ala Glu Gln Ala Ala Leu Asn Arg Leu Leu Leu Glu Glu  
                   20                  25                  30  
 Ala

<210> 81  
 <400> 81  
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<210> 82  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 82  
 Phe His Leu Leu Arg Glu Val Leu Glu Ala Arg Ala Glu Gln Leu Ala  
           1                  5                  10                  15  
 Gln Gln Ala His Ser Asn Arg Lys Leu Glu Ile Ile  
                   20                  25

<210> 83  
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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 83

Phe His Leu Leu Arg Glu Val Leu Glu Ala Arg Ala Glu Gln Leu Ala  
1 5 10 15

Gln Glu Ala His Lys Asn Arg Lys Leu Glu Ile Ile  
20 25

<210> 84

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 84

Ser Glu Glu Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg Glu  
1 5 10 15

Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln Ala His Ser  
20 25 30

Asn Arg Lys Leu Met Glu Ile Ile  
35 40

<210> 85

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 85

Val Gly Ser Glu  
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<210> 86  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 86  
Ala Gly Ser Glu  
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<210> 87  
<211> 41  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 87  
Ser Gln Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Met Thr Lys Ala Asp Gln Leu Ala Gln Gln Ala His  
20 25 30

Ser Asn Arg Lys Leu Leu Asp Ile Ala  
35 40

<210> 88  
<211> 40  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 88  
Ser Gln Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Glu Val Leu Glu Thr Lys Ala Asp Gln Leu Ala Gln Gln Ala Tyr Ser

20

25

30

Asn Arg Lys Leu Leu Asp Ile Ala  
 35 40

&lt;210&gt; 89

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 89

Ser Leu Asp Ser Pro Ala Ala Leu Ala Glu Arg Gly Ala Arg Asn Ala  
 1 5 10 15

Leu Gly Gly His Gln Glu Ala Pro Glu Arg Glu  
 20 25

&lt;210&gt; 90

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 90

Glu Gly Pro Pro Ile Ser Ile Asp Leu Ser Leu Glu Leu Leu Arg Lys  
 1 5 10 15

Met Ile Glu Ile Glu Lys Gln Glu Lys Glu Lys Gln Gln Ala Ala Asn  
 20 25 30

Asn Arg Leu Leu Leu Asp Thr Ile  
 35 40

&lt;210&gt; 91

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 91

Tyr Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu  
1 5 10 15

Arg Glu Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln Ala  
20 25 30

His Ser Asn Arg Lys Leu Met Glu Ile Ile  
35 40

<210> 92

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 92

Tyr Ser Gln Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu  
1 5 10 15

Arg Glu Val Leu Glu Met Thr Lys Ala Asp Gln Leu Ala Gln Gln Ala  
20 25 30

His Ser Asn Arg Lys Leu Leu Asp Ile Ala  
35 40

<210> 93

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 93

Tyr Asn Arg Lys Leu Leu Asp Ile Ala  
1 5

<210> 94  
 <211> 41  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 94  
 Tyr Asp Asp Pro Pro Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg  
 1 5 10 15  
 Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala Glu  
 20 25 30  
 Gln Asn Arg Ile Ile Phe Asp Ser Val  
 35 40

<210> 95  
 <211> 41  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 95  
 Tyr Asp Asp Pro Pro Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg  
 1 5 10 15  
 Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala Glu  
 20 25 30  
 Gln Asn Arg Ile Ile Phe Asp Ser Val  
 35 40

<210> 96  
 <211> 40  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 96

Asp Asn Pro Pro Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg Thr  
1 5 10 15

Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala Glu Gln  
20 25 30

Asn Arg Ile Ile Phe Asp Ser Val  
35 40

<210> 97

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 97

Asp Asp Pro Pro Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg Thr  
1 5 10 15

Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala Glu Gln  
20 25 30

Asn Arg Ile Ile Phe Asp Ser Val  
35 40

<210> 98

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 98

Asn Asp Asp Pro Pro Ile Ser Ile Asp Leu Thr Phe His Leu Leu Arg  
1 5 10 15

Asn Met Ile Glu Met Ala Arg Ile Glu Asn Glu Arg Glu Gln Ala Gly  
20 25 30

Leu Asn Arg Lys Tyr Leu Asp Glu Val  
 35 40

<210> 99  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 99  
 Ala Gly Thr Ala Asp Cys Phe Trp Lys Tyr Cys Val  
 1 5 10

<210> 100  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 100  
 Ala Gly Asn Leu Ser Glu Cys Phe Trp Lys Tyr Cys Val  
 1 5 10

<210> 101  
 <211> 46  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 101  
 Thr Gly Ser Gly Pro Ser Leu Ser Ile Val Asn Pro Leu Asp Val Leu  
 1 5 10 15

Arg Gln Arg Leu Leu Leu Glu Ile Ala Arg Arg Arg Met Arg Gln Ser  
 20 25 30

Gln Asp Gln Ile Gln Ala Asn Arg Glu Ile Leu Gln Thr Ile  
 35 40 45

<210> 102

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 102

Ser Glu Asp Pro Pro Met Ser Ile Asp Leu Thr Phe His Met Leu Arg  
 1 5 10 15  
 Asn Met Ile His Met Ala Lys Met Glu Gly Glu Arg Glu Gln Ala Gln  
 20 25 30  
 Ile Asn Arg Asn Leu Leu Asp Glu Val  
 35 40

<210> 103

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 103

Phe Glu Cys Thr Thr His Gln Pro Arg Ser Pro Leu Arg Asp Leu Lys  
 1 5 10 15

Gly Ala Leu Glu Ser Leu Ile Glu Glu Glu Thr Gly Gln  
 20 25

<210> 104

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 104

Phe Glu Cys Thr Thr His Gln Pro Arg Ser Pro Leu Arg Asp Leu Lys  
1 5 10 15

Gly Ala Leu Glu Ser Leu Ile Glu Glu Glu Thr Gly Gln  
20 25

<210> 105

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 105

Asp Ala Glu Asn Leu Ile Asp Ser Phe Gln Glu Ile Val  
1 5 10

<210> 106

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 106

Asn Thr Glu His Leu Val Asp Ser Phe Gln Glu Met Gly  
1 5 10

<210> 107

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide



<400> 107

Asp Thr Ser His His Asp Gln Asp His Pro Thr Phe Asp  
1 5 10

<210> 108

<400> 108

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<210> 109

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 109

Trp Cys Leu Glu Ser Ser Gln Cys Gln Asp Leu Ser Thr Glu Ser Asn  
1 5 10 15

Leu Leu Ala Cys Ile Arg Ala Cys Lys Pro  
20 25

<210> 110

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 110

Gln His Trp Ser Tyr Gly Leu Ser Pro Gly  
1 5 10

<210> 111

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 111

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu  
35 40

<210> 112

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 112

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Asn Arg Gln Gln Gly  
20 25 30

Glu Arg Asn Gln Glu Gln Gly Ala Lys Val Arg Leu  
35 40

<210> 113

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 113

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Arg Asn Gln Glu Gln Gly Ala Arg Val Arg Leu  
35 40

<210> 114

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 114

His Ala Asp Ala Ile Phe Thr Ser Ser Tyr Arg Arg Ile Leu Gly Gln  
1 5 10 15  
Leu Tyr Ala Arg Lys Leu Leu His Glu Ile Met Asn Arg  
20 25

<210> 115

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 115

Val Asp Ser Met Trp Ala Glu Gln Lys Gln Met Glu Leu Glu Ser Ile  
1 5 10 15

Leu Val Ala Leu Leu Gln Lys His Ser Arg Asn Ser Gln Gly  
20 25 30

<210> 116

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 116

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg  
20 25

<210> 117

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 117

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg  
20 25

<210> 118

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 118

Tyr Arg Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg  
20 25

<210> 119

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 119

His Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Ser Arg Gln Gln Gly  
20 25 30

<210> 120

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 120

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu  
35

<210> 121

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 121

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala

<210> 122

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 122

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala  
35 40

<210> 123

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 123

Glu Gln Gly Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu  
1 5 10 15

<210> 124

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 124

His Val Asp Ala Ile Phe Thr Thr Asn Tyr Arg Lys Leu Leu Ser Gln

1                      5                      10                      15  
 Leu Tyr Ala Arg Lys Val Ile Gln Asp Ile Met Asn Lys Gln Gly Glu  
                     20                      25                      30  
 Arg Ile Gln Glu Gln Arg Ala Arg Leu Ser  
                     35                      40

<210> 125  
 <211> 44  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Peptide

<400> 125  
 Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Ile Leu Gly Gln  
   1                      5                      10                      15  
 Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Asn Arg Gln Gln Gly  
                     20                      25                      30  
 Glu Arg Asn Gln Glu Gln Gly Ala Lys Val Arg Leu  
                     35                      40

<210> 126  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Peptide

<400> 126  
 His Ala Asp Ala Ile Phe Thr Ser Ser Tyr Arg Arg Ile Leu Gly Gln  
   1                      5                      10                      15  
 Leu Tyr Ala Arg Lys Leu Leu His Glu Ile Met Asn Arg Gln Gln Gly  
                     20                      25                      30  
 Glu Arg Asn Gln Glu Gln Arg Ser Arg Phe Asn  
                     35                      40

<210> 127  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 127

His Trp Ala Trp Phe Lys  
1 5

<210> 128  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 128

His Trp Ala Trp Phe Lys  
1 5

<210> 129  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 129

Ala Ala Trp Phe Lys  
1 5

<210> 130

<211> 6

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 130

His Trp Lys Trp Phe Lys  
1 5

<210> 131

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 131

Ala Ala Ala Trp Phe Leu  
1 5

<210> 132

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 132

His Ala Asp Gly Met Phe Asn Lys Ala Tyr Arg Lys Ala Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Tyr Leu His Thr Leu Met Ala Lys Arg Val Gly  
20 25 30

Gly Gly Ser Met Ile Glu Asp Asp Asn Glu Pro Leu Ser  
35 40 45

<210> 133

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 133

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Asn Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu  
35 40

<210> 134

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 134

Tyr Ala Asp Ala Ile Phe Thr Asn Cys Tyr Arg Lys Val Leu Cys Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Ser Arg  
20 25

<210> 135

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 135

Phe Ser Lys Lys Leu Lys Pro Ala  
1 5

<210> 136

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 136

Glu His Trp Ser His Gly Trp Tyr Pro Gly  
1 5 10

<210> 137

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 137

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5 10

<210> 138

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 138

Phe Ser Tyr Leu Arg Pro Ala  
1 5

<210> 139

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 139

Glu His Trp Ser Tyr Ala Leu Arg Pro Gly  
1 5 10

<210> 140

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 140

Glu His Trp Ser Tyr Gly Leu Gln Pro Gly  
1 5 10

<210> 141

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 141

His Trp Ser Tyr Val Arg Pro  
1 5

<210> 142

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 142

Glu His Trp Ser Tyr Lys Leu Arg Pro Gly  
1 5 10

<210> 143  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 143

Glu Phe Pro Ser Tyr Phe Leu Arg Pro Gly  
1 5 10

<210> 144

<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 144

Phe Trp Ser Tyr Ala Leu Arg Pro Gly  
1 5

<210> 145

<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 145

Glu Phe Trp Ser Tyr Trp Leu Arg Pro Gly  
1 5 10

<210> 146

<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 146

Glu His Trp Ser Tyr Gly Leu Arg Pro

1

5

<210> 147

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 147

Glu His Trp Ser Tyr Ala Leu Arg Pro

1

5

<210> 148

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 148

His Trp Ser Tyr Trp Leu Arg Pro Gly

1

5

<210> 149

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 149

Glu His Trp Ser Tyr Trp Leu Arg Pro

1

5

<210> 150  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 150  
His Trp Ser Tyr Ser Leu Arg Pro  
1 5

<210> 151  
<211> 9  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide  
  
<400> 151  
Glu His Trp Ser Tyr Arg Trp Leu Pro  
1 5

<210> 152  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 152  
Leu Arg Pro Gly  
1

<210> 153  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 153

His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5

<210> 154

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 154

Glu His Tyr Ser Leu Glu Trp Lys Pro Gly  
1 5 10

<210> 155

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 155

Glu His Trp Ser Tyr Gly Trp Leu Pro Gly  
1 5 10

<210> 156

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 156



Ser Tyr Gly Leu Arg Pro Gly  
1 5

<210> 157

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 157

His Trp Ser Tyr Gly Leu Lys Pro Gly  
1 5

<210> 158

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 158

Phe Phe Ser Tyr Leu Arg Pro  
1 5

<210> 159

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 159

His Trp Ser Tyr Gly Trp Leu Pro Gly  
1 5

<210> 160

<211> 9

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 160

His Trp Ser Tyr Ser Leu Arg Pro Gly  
1 5

<210> 161

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 161

Ala Phe Trp Ser Tyr Ser Leu Arg Pro  
1 5

<210> 162

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 162

Glu Pro Asp Cys Cys Arg Gln Lys Thr Cys Ser Cys Arg Leu Tyr Glu  
1 5 10 15

Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile Leu Thr Leu  
20 25 30

<210> 163

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 163

Arg Ser Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln  
1 5 10 15

Ala Ser Gly Asn His Ala Ala Gly Ile Leu Thr Met  
20 25

<210> 164

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 164

Arg Pro Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln  
1 5 10 15

Ala Asn Gly Asn His Ala Ala Gly Ile Leu Thr Met  
20 25

<210> 165

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 165

Ser Arg Thr His Arg His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn  
1 5 10 15

Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Phe  
20 25 30

<210> 166

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 166

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro  
1 5 10 15

Val Gly Arg Phe  
20

<210> 167

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 167

Ser Arg Ala His Gln His Ser Met Glu Thr Arg Thr Pro Asp Ile Asn  
1 5 10 15

Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro Val Gly Arg Phe  
20 25 30

<210> 168

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 168

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro  
1 5 10 15

Val Gly Arg Phe  
20

<210> 169

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 169

Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn  
1 5 10 15

Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Phe  
20 25 30

<210> 170

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 170

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro  
1 5 10 15

Val Gly Arg Phe  
20

<210> 171

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 171

Ala Tyr Trp Lys Phe  
1 5

<210> 172  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 172  
 Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys  
 1 5 10

<210> 173  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 173  
 Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys  
 1 5 10 15

Lys

<210> 174  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 174  
 Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys  
 1 5 10 15

Lys

<210> 175  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 175

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 176  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 176

Ala Gly Cys Lys Asn Phe Phe Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 177  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 177

Ala Gly Cys Lys Asn Phe Phe Lys Thr Tyr Thr Ser Cys  
1 5 10

<210> 178  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 178

Cys His His Phe Phe Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 179

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 179

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Trp Thr Ser Cys  
1 5 10

<210> 180

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 180

Phe Cys Tyr Thr Thr  
1 5

<210> 181

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 181

Ser Ala Asn Ser Asn Pro Ala Ala Pro Arg Glu Arg Lys Ala Gly Cys



1

5

10

15

Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

&lt;210&gt; 182

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 182

Phe Cys Phe Lys Thr Cys Thr  
1 5

&lt;210&gt; 183

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 183

Ala Pro Ser Asp Pro Arg Leu Arg Gln Phe Leu Gln Lys Ser Leu Ala  
1 5 10 15

Ala Ala Ala Gly Lys Gln Glu Leu Ala Lys Tyr Phe Leu Ala Glu Leu  
20 25 30

&lt;210&gt; 184

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 184

Tyr Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10 15

<210> 185

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 185

Tyr Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 186

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 186

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Tyr Arg Lys  
1 5 10

<210> 187

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 187

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Tyr Thr Ser Cys  
1 5 10

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 191

Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn  
1 5 10 15

Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 192

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 192

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly  
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 193

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 193

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu  
1 5 10

<210> 194

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 194

Tyr Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala  
1 5 10 15

Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
20 25

<210> 195

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 195

Ser Ala Asn Ser Asn Pro Ala Leu Ala Pro Arg Glu Arg Lys Ala Gly  
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Tyr Thr Ser Cys  
20 25

<210> 196

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 196

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys  
1 5 10

<210> 197

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 197

Phe Cys Tyr Trp Lys Val Cys Trp  
1 5

<210> 198

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 198

Phe Cys Tyr Trp Lys Val Cys Trp  
1 5

<210> 199

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 199

Phe Cys Tyr Trp Thr Thr  
1 5

<210> 200

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 200

Ala Cys Tyr Trp Leu Val Cys Thr  
1 5

<210> 201  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 201  
Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys  
1 5 10

<210> 202  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 202  
His Pro Gly  
1

<210> 203  
<211> 1  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 203  
Thr  
1

<210> 204  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 204  
Thr His Pro  
1

<210> 205  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 205  
Glu His Pro  
1

<210> 206  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 206  
Glu Gln Pro  
1

<210> 207  
<211> 2  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 207



Glu His

1

<210> 208

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 208

His Pro Gly Lys

1

<210> 209

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 209

His Pro Gly

1

<210> 210

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 210

Glu Pro

1

<210> 211

<211> 2

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 211  
Phe Pro  
1

<210> 212  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 212  
Phe Leu Trp Lys Asp Leu Gln Arg Val Arg Gly Asp Leu Gly Ala Ala  
1 5 10 15  
Leu Asp Ser Trp Ile Thr  
20

<210> 213  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 213  
Glu Glu Glu Glu Lys Asp Ile Glu Ala Glu Glu Arg Gly Asp Leu Gly  
1 5 10 15  
Glu Gly Gly Ala Trp Arg Leu His  
20

<210> 214  
<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 214

Ser Phe Pro Trp Met Glu Ser Asp Val Thr  
1 5 10

<210> 215

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 215

Cys Ala Ser Leu Ser Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu  
1 5 10 15  
His Lys Leu Gln Thr Tyr Pro Arg Thr Asp Val Gly Ala Gly Thr Pro  
20 25 30

<210> 216

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 216

Cys Ser Asn Leu Ser Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu  
1 5 10 15

His Lys Leu Gln Thr Tyr Pro Arg Thr Asp Val Gly Ala Gly Thr Pro  
20 25 30

<210> 217  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 217  
 Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Phe  
 1 5 10 15  
 Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro  
 20 25 30

<210> 218  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 218  
 Cys Ser Asn Leu Ser Thr Cys Val Leu Ser Ala Tyr Trp Arg Asn Leu  
 1 5 10 15  
 Asn Asn Phe His Arg Phe Ser Gly Met Gly Phe Gly Pro Glu Thr Pro  
 20 25 30

<210> 219  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 219

Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Leu  
1 5 10 15

Asn Lys Phe His Thr Phe Pro Gln Thr Ser Ile Gly Val Gly Ala Pro  
20 25 30

<210> 220

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 220

Cys Ser Asn Leu Ser Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu  
1 5 10 15

His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro  
20 25 30

<210> 221

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 221

Val Leu Gly Lys Leu Ser Gln Glu Leu His Lys Leu Gln Thr Tyr Pro  
1 5 10 15

Arg Thr Asn Thr Gly Ser Gly Thr Pro  
20 25

<210> 222

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 222

Asp Met Ser Ser Asp Leu Glu Arg Asp His Arg Pro His Val Ser Met  
1 5 10 15

Pro Gln Asn Ala Asn  
20

<210> 223

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 223

Ala Pro Phe Arg Ser Ala Leu Glu Ser Ser Pro Ala Asp Pro Ala Thr  
1 5 10 15

Leu Ser Glu Asp Glu Ala Arg Leu Leu Leu Ala Ala Leu Val Gln Asp  
20 25 30

Tyr Val Gln Met Lys Ala Ser Glu Leu Glu Gln Glu Gln Glu Arg Glu  
35 40 45

Gly Ser Ser Leu Asp Ser Pro Arg Ser  
50 55

<210> 224

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 224

Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Ser Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Gln Ala Phe  
35

<210> 225

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 225

Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val Gly Ser  
1 5 10 15

Lys Ala Phe

<210> 226

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 226

Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val Gly Ser  
1 5 10 15

Lys Ala Phe

<210> 227  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 227  
Val Lys Asn Asn Phe Val Pro Thr Asn Val Gly Ser Lys Ala Phe  
1 5 10 15

<210> 228  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 228  
Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Lys Ala Phe  
35

<210> 229  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 229  
Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Asp Phe Leu



1                      5                      10                      15  
 Ser Arg Ser Gly Gly Val Gly Lys Asn Asn Phe Val Pro Thr Asn Val  
                     20                      25                      30  
 Gly Ser Lys Ala Phe  
                     35

<210> 230  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Peptide

<400> 230  
 Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
   1                      5                      10                      15  
 Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val  
                     20                      25                      30  
 Gly Ser Lys Ala Phe  
                     35

<210> 231  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Peptide

<400> 231  
 Cys Gly Asn Leu Ser Thr Cys  
   1                      5

<210> 232  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 232

Asp Met Ala Lys Asp Leu Glu Thr Asn His His Pro Tyr Phe Gly Asn  
1 5 10 15

<210> 233

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 233

Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser

<210> 234

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 234

Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val Gly Ser Lys  
1 5 10 15

Ala Phe

<210> 235

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 235

Val Thr His Arg Leu Ala Gly Leu Leu Ser Arg Ser Gly Gly Val Val  
1 5 10 15

Lys Asn Asn Phe Val Pro Thr Asn Val Gly Ser Lys Ala Phe  
20 25 30

<210> 236

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 236

Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Lys Ala Phe  
35

<210> 237

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 237

Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Glu Ala Phe  
35

<210> 238  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 238  
Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15  
Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn Val  
20 25 30  
Gly Ser Glu Ala Phe  
35

<210> 239  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 239  
Val Thr His Arg Leu Ala Gly Leu Leu Ser Arg Ser Gly Gly Val Val  
1 5 10 15  
Lys Asp Asn Phe Val Pro Thr Asn Val Gly Ser Glu Ala Phe  
20 25 30

<210> 240  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

## Peptide

<400> 240

Pro Thr Asn Val Gly Ser Glu Ala Phe

1

5

<210> 241

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 241

Thr Asn Val Gly Ser Glu Ala Phe

1

5

<210> 242

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 242

Asn Val Gly Ser Glu Ala Phe

1

5

<210> 243

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 243

Val Gly Ser Glu Ala Phe

1

5

<210> 244  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 244  
Val Gly Ser Glu Ala Phe  
1 5

<210> 245  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 245  
Ser Glu Ala Phe  
1

<210> 246  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 246  
Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Lys Ala Phe  
35

<210> 247  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 247  
 Ser Asn Leu Ser Thr Val Leu Gly Lys Leu Ser Gln Glu Leu His Lys  
 1 5 10 15

Leu Gln Thr Tyr Pro Arg Thr Asp Val Gly Ala Gly Thr Pro  
 20 25 30

<210> 248  
 <211> 38  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 248  
 Tyr Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu  
 1 5 10 15

Leu Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn  
 20 25 30

Val Gly Ser Lys Ala Phe  
 35

<210> 249  
 <211> 38  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 249

Tyr Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu  
 1 5 10 15

Leu Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn  
 20 25 30

Val Gly Ser Lys Ala Phe  
 35

<210> 250  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 250  
 Tyr Val Pro Thr Asn Val Gly Ser Glu Ala Phe  
 1 5 10

<210> 251  
 <211> 38  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 251  
 Tyr Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu  
 1 5 10 15

Leu Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn  
 20 25 30

Val Gly Ser Glu Ala Phe  
 35

<210> 252  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 252

Tyr Val Lys Asp Asn Phe Val Pro Thr Asn Val Gly Ser Glu Ala Phe  
1 5 10 15

<210> 253

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 253

Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Glu Ala Phe  
35

<210> 254

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 254

Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys  
1 5 10 15

Glu Asp Asn Val Leu Val Glu Ser His Glu Lys Ser Leu Gly Glu Ala  
20 25 30

Asp Lys Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser Gln  
35 40 45

<210> 255  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 255  
 Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu Lys Ser Leu Gly  
 1 5 10 15  
 Glu Ala Asp Lys Ala Asp Val Asp Val Leu Thr Lys Ala Lys Ser Gln  
 20 25 30

<210> 256  
 <211> 84  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 256  
 Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
 1 5 10 15  
 Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
 20 25 30  
 Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser  
 35 40 45  
 Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu  
 50 55 60  
 Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys  
 65 70 75 80  
 Ala Lys Ser Gln

<210> 257  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 257  
Glu Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr  
1 5 10 15

Lys Ala Lys Ser Gln  
20

<210> 258  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 258  
Ser Val Ser Glu Ile Gln Leu Asn His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Leu Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30

Asn Phe

<210> 259  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 259

Ser Val Ser Glu Cys Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Cys Gln Asp Val His  
20 25 30

Asn Phe

<210> 260

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 260

Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln  
1 5 10 15

Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His  
20 25 30

Thr Ala Glu Ile Arg Ala Thr Ser  
35 40

<210> 261

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 261

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Leu Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30

Asn Phe

<210> 262

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 262

Ala Val Ser Glu Ile Gln Phe His Asn Leu Gly Lys His Leu Ser Ser  
1 5 10 15

Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
20 25 30

<210> 263

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 263

Ser Glu Ile Gln Phe His Asn Leu Gly Lys His Leu Ser Ser Glu Arg  
1 5 10 15

Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
20 25 30

<210> 264

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 264

Ser Val Ser Glu Ile Gln Leu His Asn Leu Gly Lys His Leu Asn Ser  
1 5 10 15

Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
20 25 30

<210> 265

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 265

Ser Val Ser Glu Ile Gln Leu His Asn Leu Gly Lys His Leu Asn Ser  
1 5 10 15

Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
20 25 30

<210> 266

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 266

Ser Glu Ile Gln Leu His Asn Leu Gly Lys His Leu Asn Ser Glu Arg  
1 5 10 15

Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
20 25 30

<210> 267  
 <211> 26  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 267  
 Phe His Asn Leu Gly Lys His Leu Ser Ser Glu Arg Val Glu Trp Leu  
 1 5 10 15

Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
 20 25

<210> 268  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 268  
 Ala Val Ser Glu Ile Gln Leu His Asn Leu Gly Lys His Leu Ala Ser  
 1 5 10 15

Val Glu Arg Gln Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
 20 25 30

<210> 269  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 269

Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu  
1 5 10 15

Val Glu Ser His Glu Lys Ser Leu Gly  
20 25

<210> 270

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 270

Ser Glu Ile Gln Phe Met His Asn Leu Gly Lys His Leu Ser Ser Met  
1 5 10 15

Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Phe  
20 25 30

<210> 271

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 271

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val  
20 25 30

<210> 272

<211> 34

<212> PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 272

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30

Asn Phe

<210> 273

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 273

Lys His Leu Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu  
1 5 10 15

Gln Asp Val His Asn Phe  
20

<210> 274

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 274

Ala Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Ala  
1 5 10 15

Ser Val Glu Arg Met Gln Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe

&lt;210&gt; 275

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 275

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30Asn Phe Val Ala Leu Gly  
35

&lt;210&gt; 276

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 276

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg  
35 40

&lt;210&gt; 277

&lt;211&gt; 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 277

Leu Gln Asp Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro  
1 5 10 15

Arg Asp Ala Gly Ser  
20

<210> 278

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 278

Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys  
1 5 10 15

Glu Asp Asn Val Leu Val Glu Ser His Glu Lys Ser Leu Gly  
20 25 30

<210> 279

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 279

Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys  
1 5 10 15

Glu Asp Asn Val Leu Val Glu Ser His Glu Lys Ser Leu Gly Glu Ala  
20 25 30

Asp Lys Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser Gln  
 35 40 45

<210> 280  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 280  
 Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu Lys Ser Leu Gly  
 1 5 10 15  
 Glu Ala Asp Lys Ala Asp Val Asp Val Leu Thr Lys Ala Lys Ser Gln  
 20 25 30

<210> 281  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 281  
 Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser Gln  
 1 5 10 15

<210> 282  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 282

Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser Gln  
 1 5 10 15

<210> 283

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 283

Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
 1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
 20 25 30

Arg Pro Arg Tyr  
 35

<210> 284

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 284

Tyr Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile  
 1 5 10 15

Gln Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile  
 20 25 30

His Thr Ala Glu Ile Arg Ala Thr Ser  
 35 40

<210> 285

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 285

Tyr Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu  
1 5 10 15

Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val  
20 25 30

His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg  
35 40 45

<210> 286

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 286

Tyr Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu  
1 5 10 15

Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val  
20 25 30

His Asn Phe  
35

<210> 287

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 287

Tyr Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30

Asn Phe

<210> 288

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 288

Tyr Leu Gln Asp Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala  
1 5 10 15

Pro Arg Asp Ala Gly Ser  
20

<210> 289

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 289

Phe Met His Asn Leu Gly Lys His Leu Ser Ser Met Glu Arg Val Glu  
1 5 10 15

Trp Leu Arg Lys Lys Leu Gln Asp Val His Asn Tyr  
20 25

<210> 290

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 290

Tyr Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val  
1 5 10 15

Leu Val Glu Ser His Glu Lys Ser Leu Gly  
20 25

<210> 291

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 291

Tyr Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu Lys Ser Leu  
1 5 10 15

Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser  
20 25 30

Gln

<210> 292

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 292

Tyr Glu Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu  
1 5 10 15

Thr Lys Ala Lys Ser Gln  
20



<210> 293  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 293  
Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln  
1 5 10 15  
Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His  
20 25 30

Thr Ala

<210> 294  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 294  
Ala Arg Ser Ala Trp  
1 5

<210> 295  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 295  
Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln  
1 5 10 15

Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His

20

25

30

Thr Ala

&lt;210&gt; 296

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 296

Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln Asp

1

5

10

15

Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His Thr

20

25

30

Ala

&lt;210&gt; 297

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 297

Tyr Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile

1

5

10

15

Gln Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile

20

25

30

His Thr Ala

35

&lt;210&gt; 298

&lt;211&gt; 34

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 298  
Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln  
1 5 10 15  
Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His  
20 25 30

Thr Tyr

<210> 299  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 299  
Ala Val Ser Glu His Gln Leu Leu His Asp Lys Gly Lys Ser Ile Gln  
1 5 10 15  
Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile Ala Glu Ile His  
20 25 30

Thr Ala Glu Ile Arg  
35

<210> 300  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 300

Leu Leu His Asp Lys Gly Lys Ser Ile Gln Asp Leu Arg Arg Arg Phe  
 1 5 10 15

Phe Leu His His Leu Ile Ala Glu Ile His Thr Ala  
 20 25

<210> 301

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 301

Ala Thr Ser Glu Val Ser Pro Asn Ser Lys Pro Ser Pro Asn Thr Lys  
 1 5 10 15

Asn His Pro Val Arg Phe Gly Ser Asp Asp Glu  
 20 25

<210> 302

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 302

Tyr Leu Thr Gln Glu Thr Asn Lys Val Glu Thr Tyr Lys Glu Gln Pro  
 1 5 10 15

Leu Lys Thr Pro  
 20

<210> 303

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 303

Thr Arg Ser Ala Trp  
1 5

<210> 304

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 304

Thr Arg Ser Ala Trp  
1 5

<210> 305

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 305

Thr Arg Ser Ala Trp Leu Asp Ser Gly Val Thr Gly Ser Gly Leu Glu  
1 5 10 15

Gly Asp His Leu Ser Asp Thr Ser Thr Thr Ser Leu Glu Leu Asp Ser  
20 25 30

<210> 306

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 306

Ser Ala Trp Leu Asp Ser Gly Val Thr Gly Ser Gly Leu Glu Gly Asp  
1 5 10 15

His Leu Ser Asp Thr Ser Thr Thr Ser Leu Glu Leu Asp Ser Arg Arg  
20 25 30

His

<210> 307

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 307

Thr Ala Leu Leu Trp Gly Leu Lys Lys Lys Lys Glu Asn Asn Arg Arg  
1 5 10 15

Thr His His Met Gln Leu Met Ile Ser Leu Phe Lys Ser Pro Leu Leu  
20 25 30

Leu Leu

<210> 308

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 308

Met Ile Pro Ala Lys Asp Met Ala Lys Val Met Ile Val Met Leu Ala  
1 5 10 15

Ile Arg Phe Leu Thr Lys Ser Asp Gly Lys Ser Val Lys Lys Arg  
20 25 30

<210> 309  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 309  
 Thr Ala Leu Leu Trp Gly Leu Lys Lys Lys Lys Gly Lys Gln Gln Lys  
 1 5 10 15

Asn Thr Ser Tyr Ala Thr Asn Asp Leu Ile Ile  
 20 25

<210> 310  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 310  
 Ala Thr Gln Arg Leu Ala Asn Phe Leu Val His Ser Ser Asn Asn Phe  
 1 5 10 15

Gly Ala Ile Leu Ser Ser Thr Asn Val Gly Ser Asn Thr Tyr  
 20 25 30

<210> 311  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 311  
 Ala Thr Gln Arg Leu Ala Asn Phe Leu Val Arg Ser Ser Asn Asn Leu  
 1 5 10 15

Gly Pro Val Leu Pro Pro Thr Asn Val Gly Ser Asn Thr Tyr  
20 25 30

<210> 312  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 312  
Val Leu Gly Lys Leu Ser Gln Glu Leu His Lys Leu Gln Thr Tyr Pro  
1 5 10 15  
Arg Thr Asn Thr Gly Ser Asn Thr Tyr  
20 25

<210> 313  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 313  
Leu Gly Arg Leu Ser Gln Glu Leu His Arg Leu Gln Thr Tyr Pro Arg  
1 5 10 15  
Thr Asn Thr Gly Ser Asn Thr Tyr  
20

<210> 314  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide



<400> 314

Ala Thr Gln Arg Leu Ala Asn Glu Leu Val Arg Leu Gln Thr Tyr Pro  
1 5 10 15

Arg Thr Asn Val Gly Ser Asn Thr Tyr  
20 25

<210> 315

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 315

Thr Gln Arg Leu Ala Asn Phe Leu Val His Ser Ser Asn Asn Phe Gly  
1 5 10 15

Ala Ile Leu Ser Ser Thr Asn Val Gly Ser Asn Thr Tyr  
20 25

<210> 316

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 316

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

Ile Arg Ser Ser Asn Asn Leu Gly Ala Ile Leu Ser Pro Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr  
35

<210> 317

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 317

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr  
35

<210> 318

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 318

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr  
35

<210> 319

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 319

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala

1

5

10

&lt;210&gt; 320

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 320

Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser

1

5

10

&lt;210&gt; 321

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 321

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu

1

5

10

15

Val Arg Ser Ser Asn Asn Leu Gly Pro Val Leu Pro Pro Thr Asn Val

20

25

30

Gly Ser Asn Thr Tyr

35

&lt;210&gt; 322

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 322

Ala Thr Gln Arg Leu Ala Asn Phe Leu Val Arg Ser Ser Asn Asn Leu

1 5 10 15

Gly Pro Val Leu Pro Pro Thr Asn Val Gly Ser Asn Thr Tyr  
20 25 30

<210> 323

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 323

Ala Thr Gln Arg Leu Ala Asn Phe Leu Val His Ser Ser Asn Asn Phe  
1 5 10 15

Gly Ala Ile Leu Ser Ser Thr Asn Val Gly Ser Asn Thr Tyr  
20 25 30

<210> 324

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 324

Ala Thr Gln Arg Leu Ala Asn Phe Leu Val Arg Ser Ser Asn Asn Leu  
1 5 10 15

Gly Pro Val Leu Pro Pro Thr Asn Val Gly Ser Asn Thr Tyr  
20 25 30

<210> 325

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 325

Val Leu Gly Lys Leu Ser Gln Glu Leu His Lys Leu Gln Thr Tyr Pro  
1 5 10 15

Arg Thr Asn Thr Gly Ser Asn Thr Tyr  
20 25

<210> 326

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 326

Leu Gly Arg Leu Ser Gln Glu Leu His Arg Leu Gln Thr Tyr Pro Arg  
1 5 10 15

Thr Asn Thr Gly Ser Asn Thr Tyr  
20

<210> 327

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 327

Ala Thr Gln Arg Leu Ala Asn Glu Leu Val Arg Leu Gln Thr Tyr Pro  
1 5 10 15

Arg Thr Asn Val Gly Ser Asn Thr Tyr  
20 25

<210> 328

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 328

Thr Gln Arg Leu Ala Asn Phe Leu Val His Ser Ser Asn Asn Phe Gly  
1 5 10 15

Ala Ile Leu Ser Ser Thr Asn Val Gly Ser Asn Thr Tyr  
20 25

<210> 329

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 329

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

Ile Arg Ser Ser Asn Asn Leu Gly Ala Ile Leu Ser Pro Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr  
35

<210> 330

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 330

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr  
35

<210> 331  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 331  
Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15  
Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val  
20 25 30  
Gly Ser Asn Thr Tyr  
35

<210> 332  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 332  
Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala  
1 5 10

<210> 333  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 333

Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser  
 1 5 10

<210> 334  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 334  
 Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
 1 5 10 15  
 Val Arg Ser Ser Asn Asn Leu Gly Pro Val Leu Pro Pro Thr Asn Val  
 20 25 30  
 Gly Ser Asn Thr Tyr  
 35

<210> 335  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 335  
 Ala Thr Gln Arg Leu Ala Asn Phe Leu Val Arg Ser Ser Asn Asn Leu  
 1 5 10 15  
 Gly Pro Val Leu Pro Pro Thr Asn Val Gly Ser Asn Thr Tyr  
 20 25 30

<210> 336  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic



# Peptide

<400> 336

Ser Gln Gly Thr Phe Thr Ser Glu Tyr Ser Lys Tyr Leu Asp Ser Arg  
1 5 10 15

Arg Ala Gln Asp Phe Val Gln Trp Leu Met Asn Thr  
20 25

<210> 337

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 337

His Gly Glu Gly Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Ala Arg  
1 5 10 15

Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Pro  
20 25 30

Pro Pro Ser  
35

<210> 338

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 338

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser  
1 5 10 15

Arg Arg Ala Gln Asp Phe Val Gln Trp Leu Met Asn Thr  
20 25

<210> 339

<211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 339  
 Ala Gln Asp Phe Val Gln Trp Leu Met Asn Thr  
 1 5 10

<210> 340  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 340  
 Phe Val Gln Trp Leu Met Asn Thr  
 1 5

<210> 341  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 341  
 Ser Gln Gly Thr Phe Thr Ser Glu Tyr Ser Lys Tyr Leu Asp Ser Arg  
 1 5 10 15

Arg Ala Gln Asp Phe Val Gln Trp Leu Met Asn Thr  
 20 25

<210> 342  
 <211> 36  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 342

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val  
1 5 10 15  
Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu  
20 25 30  
Val Lys Gly Arg  
35

<210> 343

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 343

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val  
1 5 10 15  
Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu  
20 25 30  
Val Lys Gly Arg Gly  
35

<210> 344

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 344

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 20 25 30

<210> 345

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 345

His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn  
 1 5 10 15

Leu Ala Thr Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr  
 20 25 30

Asp

<210> 346

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 346

His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn  
 1 5 10 15

Leu Ala Ala Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr  
 20 25 30

Asp Arg

<210> 347

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 347

His Ser Glu Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser  
1 5 10 15

Arg Arg Ala Glu Asp Phe Val Glu Trp Leu Met Asn Thr Lys Arg Asn  
20 25 30

Lys Asn Asn Ile Ala  
35

<210> 348

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 348

His Ser Glu Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser  
1 5 10 15

Arg Arg Ala Glu Asp Phe Val Glu Trp Leu Met Asn Thr Lys Arg Asn  
20 25 30

Lys Asn Asn Ile Ala  
35

<210> 349

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 349

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30

Ser Gly Ala Pro Pro Pro Ser  
 35

&lt;210&gt; 350

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 350

His Ala Asp Gly Thr Leu Thr Ser Asp Ile Ser Ser Phe Leu Glu Lys  
 1 5 10 15

Gln Ala Thr Lys Glu Phe Ile Ala Trp Leu Val Ser Gly Arg Gly Arg  
 20 25 30

Arg Gln

&lt;210&gt; 351

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 351

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser  
 1 5 10 15

Lys Lys Ala Gln Glu Phe Val Gln Trp Leu Met Asn Thr  
 20 25

&lt;210&gt; 352

&lt;211&gt; 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 352

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 353

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 353

His Ala Asp Gly Ser Phe Thr Ser Asp Ile Asn Lys Val Leu Asp Thr  
1 5 10 15

Ile Ala Ala Lys Glu Phe Leu Asn Trp Leu Ile Ser Thr Lys Val Thr  
20 25 30

Glu

<210> 354

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 354

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val  
 1 5 10 15

Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu  
 20 25 30

Val Lys Gly Arg  
 35

<210> 355

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 355

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 20 25 30

<210> 356

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 356

Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val  
 1 5 10 15

Xaa Gly Arg

<210> 357

<211> 4

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 357

Ser Asp Val Ser

1

<210> 358

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 358

Thr Ser Asp Val Ser

1

5

<210> 359

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 359

Phe Thr Ser Asp Val Ser

1

5

<210> 360

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 360

Thr Phe Thr Ser Asp Val Ser  
1 5

<210> 361

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 361

Gly Thr Phe Thr Ser Asp Val Ser  
1 5

<210> 362

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 362

Glu Gly Thr Phe Thr Ser Asp Val Ser  
1 5

<210> 363

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 363

Ala Glu Gly Thr Phe Thr Ser Asp Val Ser  
1 5 10

<210> 364

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 364

His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 365

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 365

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 366

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 366

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Tyr  
 20 25 30

<210> 367

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 367

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Tyr  
 20 25 30

<210> 368

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 368

Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Met Ile Glu  
 1 5 10 15

Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser  
 20 25 30

<210> 369

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 369

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val  
1 5 10 15

Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu  
20 25 30

Val Lys Gly Arg Lys  
35

<210> 370

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 370

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys  
20 25 30

<210> 371

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 371

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser Lys  
35 40

<210> 372  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 372  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser Lys  
35 40

<210> 373  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 373  
His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser Lys  
35 40

<210> 374  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 374

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Glu Met Glu Glu  
1 5 10 15

Glu Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Tyr  
20 25 30

<210> 375

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 375

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Glu Met Glu Glu  
1 5 10 15

Glu Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Tyr  
20 25 30

<210> 376

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 376

Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu  
1 5 10 15

Trp Leu Lys Gly Gly Pro Ser Ser Gly Pro Pro Pro Ser  
20 25

<210> 377

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 377

Glu Ala Glu Asp Leu Gln Val Gly Gln Val Glu Leu Gly Gly Gly Pro  
1 5 10 15

Gly Ala Gly Ser Leu Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln  
20 25 30

<210> 378

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 378

Tyr Glu Ala Glu Asp Leu Gln Val Gly Gln Val Glu Leu Gly Gly Gly  
1 5 10 15

Pro Gly Ala Gly Ser Leu Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln  
20 25 30

<210> 379

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 379

Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu  
1 5 10 15

Glu Asn Tyr Cys Asn Phe Val Asn Gln His Leu Cys Gly Ser His Leu



20

25

30

Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr  
 35 40 45

Pro Lys Thr  
 50

&lt;210&gt; 380

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 380

Asp Val Ser Thr Pro Pro Thr Val Leu Pro Asp Asn Phe Pro Arg Tyr  
 1 5 10 15

&lt;210&gt; 381

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 381

Arg Asp Val Ser Thr Pro Pro Thr Val Leu Pro Asp Asn Phe Pro Arg  
 1 5 10 15

Tyr Pro Val Gly Lys Phe Phe Gln Tyr Asp Thr Trp Lys Gln Ser Thr  
 20 25 30

Gln Arg Leu  
 35

&lt;210&gt; 382

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 382

Gly Leu Pro Ala Leu Leu Arg Ala Arg Arg Gly His Val Leu Ala Lys  
1 5 10 15

Glu Leu Glu Ala Phe Arg Glu Ala  
20

<210> 383

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 383

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 384

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 384

Pro Asp Lys Asp Phe Ile Val Asn Pro Ser Asp Leu Val Leu Asp Asn  
1 5 10 15

Lys Ala Ala Leu Arg Asp Tyr Leu Arg Gln Ile Asn Glu Tyr Phe Ala  
20 25 30

Ile Ile Gly Arg Pro Arg Phe  
35

<210> 385

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 385

Phe Met Arg

1

<210> 386

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 386

Cys Trp Arg Tyr Cys Trp Arg Tyr

1

5

<210> 387

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 387

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp

1

5

10

15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr

20

25

30

Arg Gln Arg Tyr  
35

<210> 388

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 388

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu  
20

<210> 389

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 389

Ile Gly Pro Tyr Arg Leu Arg Tyr  
1 5

<210> 390

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 390

Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp  
1 5 10 15

Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Tyr Leu Asn Val Val Thr  
20 25 30

Arg His Arg Tyr  
35

<210> 391

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 391

Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 392

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 392

Leu Thr Arg Pro Arg Tyr  
1 5

<210> 393

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 393

Leu Thr Arg Pro Arg Tyr

1 5

<210> 394

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 394

Ala Pro Ser Glu Pro His His Pro Gly Asp Gln Ala Thr Gln Asp Gln

1 5 10 15

Leu Ala Gln Tyr Tyr Ser Asp Leu Tyr Gln Tyr Ile Thr Phe Val Thr

20 25 30

Arg Pro Arg Phe

35

<210> 395

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 395

Ala Pro Leu Glu Pro Met Tyr Pro Gly Asp Tyr Ala Thr His Glu Gln

1 5 10 15

Arg Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr

20 25 30

Arg Pro Arg Tyr

35

<210> 396

<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 396  
Tyr Pro Pro Lys Pro Glu Asn Pro Gly Glu Asp Ala Pro Pro Glu Glu  
1 5 10 15  
Leu Ala Lys Tyr Tyr Thr Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30  
Arg Gln Arg Tyr  
35

<210> 397  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 397  
Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1 5 10 15  
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
20 25 30  
Arg Gln Arg Tyr  
35

<210> 398  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 398

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 399

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 399

Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1 5 10 15

Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 400

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 400

Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Leu Thr  
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Arg Pro Arg Tyr



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Glu Gln Asp Tyr Thr Gly Trp Met Asp Phe  
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Lys Ala Pro Ser Gly Arg Met Ser Ile Val Lys Asn Leu Gln Asn Leu  
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Asp Pro Ser His Arg Ile Ser Asp Arg Asp Tyr Met Gly Trp Met Asp  
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<400> 406

Tyr Met Gly Trp Met Asp Phe

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<400> 407

Trp Met Asp Phe

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<210> 408

<211> 33

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<400> 408

Lys Ala Pro Ser Gly Arg Val Ser Met Ile Lys Asn Leu Gln Ser Leu

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Asp Pro Ser His Arg Ile Ser Asp Arg Asp Tyr Met Gly Trp Met Asp

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<400> 410

Ser Ala Glu Glu Tyr Glu Tyr Pro Ser

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Asp Tyr Met Gly Trp  
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Asp Tyr Met Gly Trp Met  
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Val Pro Val Glu Ala Val Asp Pro Met  
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<400> 416  
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Leu Ala Gly Asn Thr Thr Ala  
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<400> 417  
Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro  
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Arg Gly Asn His Trp Ala Val Gly His Leu Met  
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<400> 418

Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro  
1 5 10 15

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<400> 419

Ala Pro Val Ser Val Gly Gly Gly Thr Val Leu Ala Lys Met Tyr Pro  
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Arg Gly Asn His Trp Ala Val Gly His Leu Met  
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Met Tyr Pro Arg Gly Asn His Trp Ala Val Gly His Leu Met  
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<400> 421

Phe Leu Pro His Val Phe Ala Glu Leu Ser Asp Arg Lys Gly Phe Val  
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Gln Gly Asn Gly Ala Val Glu Ala Leu His Asp His Phe Tyr Pro Asp  
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Trp Met Asp Phe  
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<400> 422

Glu Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp  
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<400> 423

Glu Leu Gly Pro Gln Gly Pro Pro His Leu Val Ala Asp Pro Ser Lys  
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Lys Gln Gly Pro Trp Leu Glu Glu Glu Glu Ala Tyr Gly Trp Met  
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Asp Phe

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<400> 424

Glu Arg Pro Pro Met Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp  
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<210> 425

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Ala Trp Met Asp Phe  
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<400> 426



Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys  
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Ile His Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys Gly Lys  
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Lys Asn Asp Trp Lys His Asn Ile Thr Gln  
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<210> 427

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<400> 427

Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys  
 1 5 10 15

Ile Arg Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys Gly Lys  
 20 25 30

Lys Ser Asp Trp Lys His Asn Ile Thr Gln  
 35 40

<210> 428

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<223> Description of Artificial Sequence: Synthetic  
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<400> 428

Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys  
 1 5 10 15

Ile Arg Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys  
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<210> 429

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<400> 429  
Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys  
1 5 10 15  
Ile Arg Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys  
20 25 30

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<400> 430  
Phe Val Pro Ile Phe Thr His Ser Glu Leu Gln Lys Ile Arg Glu Lys  
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Glu Arg Asn Lys Gly Gln  
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<400> 432  
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Glu Arg Asn Lys Gly Gln  
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<400> 433  
Phe Val Pro Ile Phe Thr Tyr Gly Glu Leu Arg Leu Gln Glu Lys Glu  
1 5 10 15

Arg Asn Lys Gly Gln  
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<210> 434  
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<400> 434  
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<400> 435

His Ser Asp Gly Thr Phe Thr Ser Glu Leu Ser Arg Leu Arg Glu Ser  
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Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val  
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<223> Description of Artificial Sequence: Synthetic  
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<400> 436

His Ser Asp Gly Leu Phe Thr Ser Glu Tyr Ser Lys Met Arg Gly Asn  
1 5 10 15

Ala Gln Val Gln Lys Phe Ile Gln Asn Leu Met  
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<210> 437

<211> 27

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<223> Description of Artificial Sequence: Synthetic  
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<400> 437

His Ser Asp Gly Thr Phe Thr Ser Glu Leu Ser Arg Leu Arg Glu Gly  
1 5 10 15

Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val  
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<210> 438

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<223> Description of Artificial Sequence: Synthetic  
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<400> 438

His Ser Asp Gly Thr Phe Thr Ser Glu Leu Ser Arg Leu Arg Asp Ser  
1 5 10 15

Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val  
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<400> 439

His Ser Asp Gly Thr Phe Thr Ser Glu Leu Ser Arg Leu Gln Asp Ser  
1 5 10 15

Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val  
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<210> 440

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<400> 440

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Arg Leu Gln Arg Leu Leu Gly Gly Leu Val  
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Leu Ala Val Arg Arg Tyr Leu Asn Ser Ile Leu Asn Gly Lys Arg  
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Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser  
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Ser Asn Ile Ser Glu Asp Pro Val Pro Val



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Met Ala Met Lys Lys Tyr Leu Asn Ser Val Leu Asn  
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn

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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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Leu Asn

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Ala Ala Lys Lys Tyr Leu Asn Ser Val Leu Ala  
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Tyr Leu Asn Ser Ile Leu Asn  
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&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
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1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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&lt;210&gt; 462

&lt;211&gt; 29

&lt;212&gt; PRT

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&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
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&lt;400&gt; 462

Tyr Phe Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg  
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&lt;210&gt; 463

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1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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Ser Leu Ser Gly Met Gly Cys Asn Gly Ser Arg Lys Asn  
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Gly Phe Ile Trp Gly Asn Ile Phe Gly His Tyr Ser Gly Asp Phe  
1 5 10 15

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<223> Description of Artificial Sequence: Synthetic  
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<400> 467

Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg  
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<210> 468

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic  
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<400> 468

Ser Ser Asp Cys Phe Gly Ser Arg Ile Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15

Gly Met Gly Cys Gly Arg Arg Phe  
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<210> 469

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<400> 469

Cys Phe Gly Ser Arg Ile Asp Arg Ile Gly Ala Gln Ser Gly Met Gly

1 5 10 15

Cys Gly Arg Phe  
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<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 470

Cys Phe Gly Ser Arg Ile Asp Arg Ile Gly Ala Gln Ser Gly Met Gly  
1 5 10 15

Cys Gly Arg Arg Phe  
20

<210> 471

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 471

Ser Ser Asp Cys Phe Gly Ser Arg Ile Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15

Gly Met Gly Cys Gly Arg Arg Phe  
20

<210> 472

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide



<400> 472

Ala Pro Arg Ser Met Arg Arg Ser Ser Asp Cys Phe Gly Ser Arg Ile  
1 5 10 15

Asp Arg Ile Gly Ala Gln Ser Gly Met Gly Cys Gly Arg Phe  
20 25 30

<210> 473

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 473

Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly  
1 5 10 15

Leu Gly Cys Asn Ser Phe Arg Tyr  
20

<210> 474

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 474

Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly  
1 5 10 15

Cys

<210> 475

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 475

Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly  
1 5 10 15

Cys Asn Ser Phe Arg Tyr  
20

<210> 476

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 476

Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly  
1 5 10 15

Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 477

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 477

Arg Cys Gly Gly Arg Ile Asp Arg Ile Arg Cys  
1 5 10

<210> 478

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 478

Arg Arg Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln  
1 5 10 15

Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 479

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 479

Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln  
1 5 10 15

Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 480

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 480

Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15

Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 481

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 481

Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly  
1 5 10 15

Leu Gly Cys Asn Ser Phe Arg  
20

<210> 482

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 482

Ser Lys Ser Ser Ser Pro Cys Phe Gly Gly Lys Leu Asp Arg Ile Gly  
1 5 10 15

Ser Tyr Ser Gly Leu Gly Cys Asn Ser Arg Lys  
20 25

<210> 483

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 483

Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser Gly  
1 5 10 15

Leu Gly Cys Asn Ser  
20

[illegible]

Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 487

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 487

Arg Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15

Gly Leu Gly Cys Asn Ser Phe Arg  
20

<210> 488

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 488

Arg Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15

Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 489

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 489

Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly  
1 5 10 15

Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr Ser Leu Arg Arg  
20 25 30

Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly  
35 40 45

Leu Gly Cys Asn Ser Phe Arg Tyr  
50 55

<210> 490

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 490

Ala Gly Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Ile  
1 5 10 15

Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25 30

<210> 491

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 491

Ser Lys Ser Ser Ser Pro Cys Phe Gly Gly Lys Leu Asp Arg Ile Gly  
1 5 10 15

Ser Tyr Ser Gly Leu Gly Cys Asn Ser Arg Lys  
20 25

<210> 492  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 492  
Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys  
1 5 10 15

<210> 493  
<211> 15  
<212> PRT  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 493  
Arg Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Cys  
1 5 10 15

<210> 494  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 494  
Ser Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly  
1 5 10 15

Asn Ser Phe Arg Tyr  
20

<210> 495



<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 495

Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly  
1 5 10 15

Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 496

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 496

Phe Ala Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys  
1 5 10 15

Asn Ser Phe Arg Tyr  
20

<210> 497

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 497

Ser Ser Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu Arg  
1 5 10

<210> 498

<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 498  
Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys  
1 5 10 15  
Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp  
20 25 30

<210> 499  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 499  
Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly  
1 5 10 15  
Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val  
20 25 30  
Ser Pro Ala Gln Arg  
35

<210> 500  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 500  
Ser Ser Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu Arg Ala Leu Leu  
1 5 10 15

Thr Ala Pro Arg  
20

<210> 501  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 501  
Ser Lys Ser Ser Ser Pro Cys Phe Gly Gly Lys Leu Asp Arg Ile Gly  
1 5 10 15  
Ser Tyr Ser Gly Leu Gly Cys Asn Ser Arg Lys  
20 25

<210> 502  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 502  
Tyr Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15  
Gly Leu Gly Cys Asn Ser Phe Arg  
20

<210> 503  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 503

Tyr Ser Ser Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu Arg Ala Leu  
1 5 10 15

Leu Thr Ala Pro Arg  
20

<210> 504

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 504

Thr Ala Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met  
1 5 10 15

Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25 30

<210> 505

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 505

Tyr Ser Ser Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser  
1 5 10 15

Gly Leu Gly Cys Asn Ser Phe Arg  
20

<210> 506

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 506

Ser Phe Asn Ser Cys Phe Gly Asn Arg Ile Glu Arg Ile Gly Ser Trp  
1 5 10 15

Ser Gly Leu Gly Cys Asn Asn Val Lys Thr Gly Asn Lys Lys Arg Ile  
20 25 30

Phe Gly Asn  
35

<210> 507

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 507

Ser Pro Lys Met Met His Lys Ser Gly Cys Phe Gly Arg Arg Leu Asp  
1 5 10 15

Arg Ile Gly Ser Leu Ser Gly Leu Gly Cys Asn Val Leu Arg Lys Tyr  
20 25 30

<210> 508

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 508

Gly Trp Asn Arg Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser

1 5 10 15

Leu Ser Gly Leu Gly Cys  
20

<210> 509

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 509

Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp  
1 5 10 15

Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His  
20 25 30

<210> 510

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 510

Ser Gln Gly Ser Thr Leu Arg Val Gln Gln Arg Pro Gln Asn Ser Lys  
1 5 10 15

Val Thr His Ile Ser Ser Cys Phe Gly His Lys Ile Asp Arg Ile Gly  
20 25 30

Ser Val Ser Arg Leu Gly Cys Asn Ala Leu Lys Leu Leu  
35 40 45

<210> 511

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 511

Asp Ser Gly Cys Phe Gly Arg Arg Leu Asp Arg Ile Gly Ser Leu Ser  
1 5 10 15

Gly Leu Gly Cys Asn Val Leu Arg Arg Tyr  
20 25

<210> 512

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 512

Ser Pro Lys Thr Met Arg Asp Ser Gly Cys Phe Gly Arg Arg Leu Asp  
1 5 10 15

Arg Ile Gly Ser Leu Ser Gly Leu Gly Cys Asn Val Leu Arg Arg Tyr  
20 25 30

<210> 513

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 513

Asn Ser Lys Met Ala His Ser Ser Ser Cys Phe Gly Gln Lys Ile Asp  
1 5 10 15

Arg Ile Gly Ala Val Ser Arg Leu Gly Cys Asp Gly Leu Arg Leu Phe  
 20 25 30

<210> 514

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 514

Ser Gln Asp Ser Ala Phe Arg Ile Gln Glu Arg Leu Arg Asn Ser Lys  
 1 5 10 15

Met Ala His Ser Ser Ser Cys Phe Gly Gln Lys Ile Asp Arg Ile Gly  
 20 25 30

Ala Val Ser Arg Leu Gly Cys Asp Gly Leu Arg Leu Phe  
 35 40 45

<210> 515

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 515

Tyr Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met  
 1 5 10 15

Asp Arg Leu Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg  
 20 25 30

His

<210> 516



<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 516  
Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp  
1 5 10 15  
Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His  
20 25 30

<210> 517  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 517  
Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser  
1 5 10 15  
Met Ser Gly Leu Gly Cys  
20

<210> 518  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 518  
Gly Leu Ser Arg Ser Cys Phe Gly Val Lys Leu Asp Arg Ile Gly Ser  
1 5 10 15

<210> 634  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 634  
Gly Leu Pro Pro Gly Pro Pro Ile Pro Pro  
1 5 10

<210> 635  
<211> 8  
<212> PRT  
<213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 635  
Arg Pro Gly Phe Ser Pro Phe Arg  
1 5

<210> 636  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 636  
Arg Pro Gly Phe Ser Pro Phe Arg  
1 5

<210> 637  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 637

Asp Arg Val Tyr Ile His Pro Phe His Leu  
1 5 10

<210> 638

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 638

Gly Gly Gly  
1

<210> 639

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 639

Asp Arg Val Tyr Ile His Pro  
1 5

<210> 640

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 640

Cys Tyr Trp Lys Val Cys Thr

1

5

<210> 641

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 641

Asp Arg Val Tyr Ile His Pro Phe

1

5

<210> 642

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 642

Glu Gly Val Tyr Val His Pro Val

1

5

<210> 643

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 643

Asp Arg Val Tyr

1

<210> 644

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 644

Val Tyr Ile His Pro Phe  
1 5

<210> 645

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 645

Tyr Ile His Pro Phe  
1 5

<210> 646

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 646

Ile His Pro Phe  
1

<210> 647

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 647

Arg Val Tyr Ile His Pro Phe

1

5

<210> 648

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 648

Arg Val Tyr Ile His Pro Ile

1

5

<210> 649

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 649

Pro Thr His Ile Lys Trp Gly Asp

1

5

<210> 650

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 650

Glu Trp Pro Arg Pro Gln Ile Pro Pro

1

5

<210> 651

<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 651

Asn Arg Val Tyr Val His Pro Phe His Leu  
1 5 10

<210> 652

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 652

Asn Arg Val Tyr Val His Pro Phe Asn Leu  
1 5 10

<210> 653

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 653

Asn Arg Val Tyr Val His Pro Phe Gly Leu  
1 5 10

<210> 654

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 654

Asn Arg Val Tyr Val His Pro

1

5

<210> 655

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 655

Asn Arg Val Tyr Val His Pro Phe

1

5

<210> 656

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 656

Arg Val Tyr Ile His Pro Phe His Leu

1

5

<210> 657

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 657

Tyr Lys Arg His Pro Ile

1

5



<210> 658  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 658  
Asp Arg Val Tyr Ile Phe Pro Phe  
1 5

<210> 659  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 659  
Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His  
1 5 10

<210> 660  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 660  
Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His Asn  
1 5 10

<210> 661  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 661

Asp Arg Val Tyr Ile His Pro Phe His Leu Leu Val Tyr Ser  
1 5 10

<210> 662

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 662

Arg Val Tyr Ile His Pro Phe  
1 5

<210> 663

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 663

Arg Val Tyr Ile His Pro  
1 5

<210> 664

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 664

Arg Val Tyr Ile His Pro Ala

1

5

<210> 665

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 665

Arg Val Tyr Ile His Pro Ile

1

5

<210> 666

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 666

Arg Val Tyr Ile His Pro Thr

1

5

<210> 667

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 667

Arg Val Tyr Ile His Pro Phe

1

5

<210> 668

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 668

Arg Val Tyr Val His Pro Ala  
1 5

<210> 669

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 669

Val Tyr Ile His Pro Ile  
1 5

<210> 670

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 670

Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His Ser  
1 5 10

<210> 671

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 671

Arg Val Tyr Val His Pro Phe

1

5

<210> 672

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 672

Asp Arg Val Tyr Val His Pro Phe

1

5

<210> 673

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 673

Asp Arg Val Tyr Val His Pro Phe

1

5

<210> 674

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 674

Asp Arg Val Tyr Val His Pro Phe His Leu

1

5

10

<210> 675

<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 675

Asp Arg Val Tyr Val His Pro Phe Asn Leu  
1 5 10

<210> 676

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 676

Asp Arg Val Tyr Val His Pro Phe Ser Leu  
1 5 10

<210> 677

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 677

Asp Arg Val Tyr Val His Pro Phe His Leu  
1 5 10

<210> 678

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 678

Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His Asn  
1 5 10

<210> 679

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 679

Asp Arg Val Tyr Ile His Pro Phe His Leu Leu Val Tyr Ser  
1 5 10

<210> 680

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 680

Pro His Pro Phe His Phe Phe Val Tyr Lys  
1 5 10

<210> 681

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 681

Asp Arg Val Tyr Ile His Pro Phe His Leu Leu Tyr Tyr Ser  
1 5 10

<210> 682  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 682  
Asp Arg Val Tyr Ile His Pro Cys His Leu Leu Tyr Tyr Ser  
1 5 10

<210> 683  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 683  
Asp Arg Val Tyr Ile His Pro Leu His Leu Leu Tyr Tyr Ser  
1 5 10

<210> 684  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 684  
Asp Arg Val Tyr Ile His Pro Val His Leu Leu Tyr Tyr Ser  
1 5 10

<210> 685  
<211> 38  
<212> PRT  
<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 685

Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Val Val Pro Tyr Gly  
20 25 30

Leu Gly Ser Pro Arg Ser  
35

<210> 686

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 686

Ile Asn Thr Pro Glu Gln Thr Val Pro Tyr Gly Leu Ser Asn Tyr Arg  
1 5 10 15

Gly Ser Phe Arg  
20

<210> 687

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 687

Val Asn Thr Pro Glu Arg Val Val Pro Tyr Gly Leu Gly Ser Pro Ser  
1 5 10 15

Arg Ser

<210> 688  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 688  
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Val Val Pro Tyr Gly  
20 25 30

Leu Gly Ser Pro Ser Arg Ser  
35

<210> 689  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 689  
Val Asn Thr Pro Glu His Val Val Pro Tyr Gly Leu Gly Ser Pro Ser  
1 5 10 15

Arg Ser

<210> 690  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 690

Ile Ile Trp Val Asn Thr Pro Glu His Val Val Pro Tyr Gly Leu Gly  
1 5 10 15

Ser Pro Arg Ser  
20

<210> 691

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 691

Val Asn Thr Pro Glu His Val Val Pro Tyr Gly Leu Gly Ser Pro Arg  
1 5 10 15

Ser

<210> 692

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 692

Cys Ser Cys Ser Ser Trp Leu Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu Gln Thr Ala Pro Tyr Gly  
20 25 30

Leu Gly Asn Pro Pro  
35

<210> 693

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 693

Val Asn Thr Pro Glu Gln Thr Ala Pro Tyr Gly Leu Gly Asn Pro Pro  
1 5 10 15

<210> 694

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 694

Cys Thr Cys Phe Thr Tyr Lys Asp Lys Glu Cys Val Tyr Tyr Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Ile Asn Thr Pro Glu Gln Thr Val Pro Tyr Gly  
20 25 30

Leu Ser Asn Tyr Arg Gly Ser Phe Arg  
35 40

<210> 695

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 695

Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Ile Val Pro Tyr Gly  
20 25 30

Leu Gly Ser Pro Ser Arg Ser  
35

<210> 696  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 696

Val Asn Thr Pro Glu His Val Val Pro Tyr Gly Leu Gly Ser Pro Ser  
1 5 10 15

Arg Ser

<210> 697  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 697

Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu Arg Val Val Pro Tyr Gly  
20 25 30

Leu Gly Ser Pro Ser Arg Ser  
35

<210> 698  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 698

Cys Ser Cys Ser Ser Trp Leu Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Val Asn Thr Pro Glu Gln Thr Ala Pro Tyr Gly  
20 25 30

Leu Gly Asn Pro Pro Arg  
35

<210> 699

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 699

Val Asn Thr Pro Glu Gln Thr Ala Pro Tyr Gly Leu Gly Asn Pro Pro  
1 5 10 15

Arg

<210> 700

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 700

Cys Thr Cys Phe Thr Tyr Lys Asp Lys Glu Cys Val Tyr Tyr Cys His  
1 5 10 15

Leu Asp Ile Ile Trp Ile Asn Thr Pro Glu Gln Thr Val Pro Tyr Gly  
20 25 30

Leu Ser Asn His Arg Gly Ser Leu Arg  
35 40

<210> 701  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 701  
Cys Gln Cys Ala Ser Gln Lys Asp Lys Lys Trp Ser Tyr Cys Gln Ala  
1 5 10 15  
Gly Lys Glu Ile  
20

<210> 702  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 702  
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15  
Leu Asp Ile Ile Trp  
20

<210> 703  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 703  
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys  
1 5 10 15

<210> 704  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 704  
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys  
1 5 10 15

<210> 705  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 705  
Trp Leu Asp Ile Ile Trp  
1 5

<210> 706  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 706  
Cys Ser Ala Ser Ser Leu Met Asp Lys Glu Ala Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp  
20

<210> 707  
<211> 20  
<212> PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 707

Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Asp His Leu  
1 5 10 15

Asp Ile Ile Trp  
20

<210> 708

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 708

Ala Ser Ala Ser Ser Leu Met Asp Lys Glu Ala Val Tyr Phe Ala His  
1 5 10 15

Leu Asp Ile Ile Trp  
20

<210> 709

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 709

Leu Met Asp Lys Glu Ala Val Tyr Phe Ala His Leu Asp Ile Ile Trp  
1 5 10 15

<210> 710

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 710

Cys Ala Cys Phe Thr Tyr Lys Asp Lys Glu Cys Val Tyr Tyr Cys His  
1 5 10 15

Leu Asp Ile Ile Trp  
20

<210> 711

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 711

Cys Ser Ala Ser Ser Leu Asp Lys Glu Ala Val Tyr Phe Cys His Leu  
1 5 10 15

Ala Ile Ile Trp  
20

<210> 712

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 712

Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asn Ile Ile Trp  
20

<210> 713  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 713  
 Asn Trp His Gly Thr Ala Pro Asp Trp Phe Phe Asn Tyr Tyr Trp  
 1 5 10 15

<210> 714  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 714  
 Asp Glu Glu Ala Val Tyr Phe Ala His Leu Asp Ile Ile Trp  
 1 5 10

<210> 715  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 715  
 His Leu Asp Ile Ile Trp  
 1 5

<210> 716  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 716

His Leu Asp Ile Ile Trp Val Asn Thr Pro Glu His Val Val Pro Tyr  
1 5 10 15

Gly Leu Gly Ser Pro Arg Ser  
20

<210> 717

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 717

Cys Ser Cys Ser Ser Trp Leu Asp Lys Glu Cys Val Tyr Phe Cys His  
1 5 10 15

Leu Asp Ile Ile Trp  
20

<210> 718

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 718

Cys Thr Cys Phe Thr Tyr Lys Asp Lys Glu Cys Val Tyr Tyr Cys His  
1 5 10 15

Leu Asp Ile Ile Trp  
20

<210> 719

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 719

Ser Leu Lys Asp Leu Phe Pro Ala Lys Ala Ala Asp Arg Arg Asp Arg  
1 5 10 15

<210> 720

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 720

Leu Trp Trp  
1

<210> 721

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 721

Met Leu Met Trp  
1

<210> 722

<211> 1

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 722

Arg

1

<210> 723

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 723

Asp Pro Ile Leu Trp

1

5

<210> 724

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 724

Ser Pro Val Leu Trp

1

5

<210> 725

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 725

Leu Asp Ile Ile Trp

1

5

<210> 726

<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 726  
Leu Asp Ile Ile Trp  
1 5

<210> 727  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 727  
Cys Ser Cys Lys Asp Met Thr Asp Lys Glu Cys Leu Asn Phe Cys His  
1 5 10 15  
Gln Asp Val Ile Trp  
20

<210> 728  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 728  
Cys Ser Cys Lys Asp Met Thr Asp Lys Glu Cys Leu Tyr Phe Cys His  
1 5 10 15  
Gln Asp Val Ile Trp  
20

<210> 729

<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 729  
Cys Thr Cys Asn Asp Met Thr Asp Glu Glu Cys Leu Asn Phe Cys His  
1 5 10 15  
Gln Asp Val Ile Trp  
20

<210> 730  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 730  
Gly Asn Trp His Gly Thr Ala Pro Asp Trp Phe Phe Asn Tyr Tyr Trp  
1 5 10 15

<210> 731  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 731  
His Leu Asp Ile Ile Trp  
1 5

<210> 732  
<211> 45  
<212> PRT  
<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 732

Thr Leu Asp Glu Glu Asp Leu Val Asp Ser Leu Ser Glu Gly Asp Ala  
1 5 10 15

Tyr Thr Asn Gly Leu Gln Val Asn Phe His Ser Pro Arg Ser Gly Gln  
20 25 30

Arg Cys Trp Ala Ala Arg Thr Gln Val Glu Lys Arg Leu  
35 40 45

<210> 733

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 733

Cys Pro Pro Gly Ser Pro Met Asn Pro His His Lys Cys Glu Val Trp  
1 5 10 15

<210> 734

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 734

Asp Pro Val Leu Trp  
1 5

<210> 735

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 735

Glu Ala Ile Trp Leu

1

5

<210> 736

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 736

Ala Val Leu Trp

1

<210> 737

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 737

Leu Trp Trp

1

<210> 738

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 738

Leu Trp

1

<210> 739

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 739

Leu Trp Tyr

1

<210> 740

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 740

Leu Trp Ala Ala Tyr Phe

1

5

<210> 741

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 741

Gly Asn Trp His Gly Thr Ser Pro Asp Trp Phe Phe Asn Tyr Tyr Trp

1

5

10

15

<210> 742

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 742

Asp Lys Glu Ala Val Tyr Phe Ala His Leu Asp Ile Ile Trp  
1 5 10

<210> 743

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 743

Cys Thr Cys Lys Asp Met Thr Asp Lys Glu Cys Leu Tyr Phe Cys His  
1 5 10 15

Gln Asp Ile Ile Trp  
20

<210> 744

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 744

Cys Thr Cys Lys Asp Met Thr Asp Glu Glu Cys Leu Asn Phe Cys His  
1 5 10 15

Gln Asp Val Ile Trp  
20

<210> 745

<211> 7

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 745

Tyr Pro Phe Val Glu Pro Ile  
1 5

<210> 746

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 746

Tyr Pro Phe  
1

<210> 747

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 747

Tyr Pro Phe  
1

<210> 748

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 748

Tyr Pro Phe Pro Gly Pro Ile

1

5

<210> 749

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 749

Tyr Pro Phe Pro

1

<210> 750

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 750

Tyr Pro Phe Pro Gly

1

5

<210> 751

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 751

Tyr Pro Phe Pro Gly

1

5

<210> 752  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 752

Tyr Pro Phe Pro Gly  
1 5

<210> 753

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 753

Tyr Pro Phe Val Glu Pro Ile  
1 5

<210> 754

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 754

Tyr Phe  
1

<210> 755

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 755

Tyr Phe Tyr

1

<210> 756

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 756

Tyr Phe Tyr

1

<210> 757

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 757

Tyr Phe Pro Tyr

1

<210> 758

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 758

Tyr Phe Pro

1



<210> 759  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 759  
Tyr Phe Pro  
1

<210> 760  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 760  
Tyr Phe Pro  
1

<210> 761  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 761  
Tyr Phe Pro Gly  
1

<210> 762  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 762  
Tyr Phe Pro Gly  
1

<210> 763  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 763  
Tyr Phe Pro Gly  
1

<210> 764  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 764  
Tyr Phe Pro Gly Pro  
1 5

<210> 765  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 765

Tyr Phe Pro

1

<210> 766

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 766

Pro Phe Pro Gly Pro Ile

1

5

<210> 767

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 767

Pro Phe Pro Gly Pro Ile

1

5

<210> 768

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 768

Tyr Pro Val Pro

1

<210> 769

<211> 4

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 769  
Tyr Pro Phe Pro  
1

<210> 770  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 770  
Tyr Pro Phe Pro  
1

<210> 771  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 771  
Tyr Pro Pro  
1

<210> 772  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 772

Tyr Ala Phe Gly Tyr Pro Ser

1

5

<210> 773

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 773

Tyr Arg Phe

1

<210> 774

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 774

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn

1

5

10

15

Gln Lys Arg Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr

20

25

30

<210> 775

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 775

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
1 5 10 15

Gln

<210> 776

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 776

Tyr Gly Phe Leu Arg Ile Arg Pro Lys Leu Lys  
1 5 10

<210> 777

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 777

Tyr Ala Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
1 5 10 15

Gln

<210> 778

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 778

Tyr Ala Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
1 5 10 15

Gln

<210> 779

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 779

Tyr Ala Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
1 5 10 15

Gln

<210> 780

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 780

Tyr Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys  
1 5 10

<210> 781

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 781

Tyr Gly Phe Leu Arg Arg Ile Arg

1

5

<210> 782

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 782

Tyr Gly Gly Phe Leu Arg Ile Arg Pro Lys Leu Lys

1

5

10

<210> 783

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 783

Tyr Gly Gly Phe Leu Arg Arg Arg Pro Lys Leu Lys

1

5

10

<210> 784

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 784

Gly Gly Phe Leu Arg Arg Ile

1

5



<210> 785  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 785  
Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu  
1 5 10

<210> 786  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 786  
Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys  
1 5 10

<210> 787  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 787  
Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys  
1 5 10

<210> 788  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 788

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro  
1 5 10

<210> 789

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 789

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Arg Leu Arg Gly  
1 5 10

<210> 790

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 790

Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10 15

<210> 791

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 791

Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10 15

<210> 792  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 792  
Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu  
1 5 10

<210> 793  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 793  
Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10 15

<210> 794  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 794  
Gly Phe Leu Arg Arg Ile  
1 5

<210> 795  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 795

Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys  
1 5 10

<210> 796

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 796

Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10 15

<210> 797

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 797

Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10

<210> 798

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 798

Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10

<210> 799

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 799

Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10

<210> 800

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 800

Tyr Pro Phe Pro Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5 10 15

<210> 801

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 801

Arg Pro Lys Leu Lys Trp Asp Asn Gln  
1 5

<210> 802

<211> 5

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 802

Lys Trp Asp Asn Gln  
1 5

<210> 803

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 803

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
1 5 10 15

Gln

<210> 804

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 804

Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr  
1 5 10

<210> 805

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 805

Tyr Gly Gly Phe Leu Arg Arg Gln Phe  
1 5

<210> 806

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 806

Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr Arg Ser Gln  
1 5 10 15  
Glu Asp Pro Asn Ala Tyr Ser Gly Glu Leu Phe Asp Ala  
20 25

<210> 807

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 807

Tyr Gly Gly Phe Leu Arg Lys Tyr Pro Lys  
1 5 10

<210> 808

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 808

Tyr Gly Gly Phe Leu Arg Lys Tyr Pro

1

5

<210> 809

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 809

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys

1

5

10

<210> 810

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 810

Tyr Gly Gly Phe Leu Arg Phe

1

5

<210> 811

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 811

Tyr Gly Gly Phe Leu Arg Phe

1

5



<210> 812  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 812  
Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr Arg Ser Gln  
1 5 10 15  
Glu Asp Pro Asn Ala Tyr Tyr Glu Glu Leu Phe Asp Val  
20 25

<210> 813  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 813  
Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15  
Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala His Lys Lys Gly Gln  
20 25 30

<210> 814  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 814  
Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15  
Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala His

<210> 815

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 815

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu  
20 25 30

<210> 816

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 816

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala  
20 25

<210> 817

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 817

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr

1

5

10

15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr

20

25

&lt;210&gt; 818

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 818

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr

1

5

10

15

Leu

&lt;210&gt; 819

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 819

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr

1

5

10

15

&lt;210&gt; 820

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 820

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr

1

5

10

15

&lt;210&gt; 821

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 821

Tyr Gly Gly Phe Leu Arg Lys Tyr Arg Pro Lys

1

5

10

&lt;210&gt; 822

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 822

Tyr Gly Gly Phe Leu Arg Lys

1

5

&lt;210&gt; 823

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 823

Tyr Gly Gly Phe Leu Arg Lys Arg

1

5

&lt;210&gt; 824

&lt;211&gt; 31

&lt;212&gt; PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 824

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala His Lys Lys Gly Gln  
20 25 30

<210> 825

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 825

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala His  
20 25

<210> 826

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 826

Tyr Gly Gly Phe Met Ser Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala His Lys Lys Gly Gln  
20 25 30

<210> 827  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 827  
Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15  
Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu  
20 25 30

<210> 828  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 828  
Tyr Gly Gly Phe Met Thr Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala  
1 5 10 15  
Tyr Lys Lys Gly Glu  
20

<210> 829  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 829  
Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15  
Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala

<210> 830

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 830

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr  
20 25

<210> 831

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 831

Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr Leu Phe Lys Asn Ala  
1 5 10 15

Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu  
20 25

<210> 832

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 832

Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu

1

5

10

&lt;210&gt; 833

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 833

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15Leu Phe Lys Asn Ala Ile Val Lys Asn Ala His Lys Lys Gly Gln  
20 25 30

&lt;210&gt; 834

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 834

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15Leu Phe Lys Asn Ala Ile Ile Lys Asn Val His Lys Lys Gly Gln  
20 25 30

&lt;210&gt; 835

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 835

Glu Leu Ala Gly Ala Pro Pro Glu Pro Ala



1

5

10

<210> 836

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 836

Tyr Gly Gly Phe

1

<210> 837

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 837

Tyr Gly Gly Phe Met Thr Ser Glu Lys

1

5

<210> 838

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 838

Lys Lys Gly Glu

1

<210> 839

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 839

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu  
20 25 30

<210> 840

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 840

Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu

<210> 841

<211> 1

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 841

Tyr  
1

<210> 842

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 842

Tyr Gly Phe Met Thr Ser Glu Lys  
1 5

<210> 843

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 843

Tyr Gly Phe Met Thr Ser Glu Lys  
1 5

<210> 844

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 844

Tyr Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr Leu  
1 5 10 15

<210> 845

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 845

Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr Leu  
1 5 10 15

<210> 846

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 846

Tyr Gly Gly Phe Leu Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr  
1 5 10 15

Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala His Lys Lys Gly Gln  
20 25 30

<210> 847

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 847

Tyr Gly Gly Phe Met Lys  
1 5

<210> 848

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 848

Tyr Gly Gly Phe Met Lys Lys  
1 5

<210> 849  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 849  
Tyr Gly Gly Phe Met Lys Arg  
1 5

<210> 850  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 850  
Tyr Gly Gly Phe Met Arg Arg Val  
1 5

<210> 851  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 851  
Ala Ala Ala Tyr Gly Gly Phe Met  
1 5

<210> 852  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 852

Tyr Gly Gly Phe Met Lys Lys Met Asp Glu Leu Tyr Pro Leu Glu Val  
1 5 10 15

Glu Glu Glu Ala Asn Gly Gly Glu Val Leu  
20 25

<210> 853

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 853

Tyr Gly Gly Phe Met Lys Lys Met Asp Glu Leu Tyr Pro Leu Glu Val  
1 5 10 15

Glu Glu Glu Ala Asn Gly Gly Glu Val Leu  
20 25

<210> 854

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 854

Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu  
1 5 10

<210> 855

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 855

Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu  
1 5 10

<210> 856

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 856

Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp Met Asp  
1 5 10 15

Tyr Gln Lys Arg Tyr Gly  
20

<210> 857

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 857

Phe Ala Arg  
1

<210> 858

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 858

Tyr Ala Gly Phe Gly

1 5

<210> 859

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 859

Tyr Ala Gly Phe Leu

1 5

<210> 860

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 860

Tyr Ala Gly Phe Met

1 5

<210> 861

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 861

Tyr Gly Phe Leu

1



<210> 862  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 862  
Tyr Gly Phe Leu Arg  
1 5

<210> 863  
<211> 2  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 863  
Gly Phe  
1

<210> 864  
<211> 2  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 864  
Gly Phe  
1

<210> 865  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 865

Gly Gly Phe Leu

1

<210> 866

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 866

Tyr Gly Phe

1

<210> 867

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 867

Tyr Gly Phe

1

<210> 868

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 868

Phe Leu Arg

1

<210> 869

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 869

Tyr Gly Phe

1

<210> 870

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 870

Tyr Gly Gly Phe Leu

1

5

<210> 871

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 871

Tyr Gly Gly Phe Leu

1

5

<210> 872

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 872

Tyr Gly Gly Phe Leu  
1 5

<210> 873

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 873

Tyr Ala Gly Phe Leu  
1 5

<210> 874

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 874

Tyr Ser Gly Phe Leu Thr  
1 5

<210> 875

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 875

Tyr Thr Gly Phe Leu Thr

1

5

<210> 876

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 876

Tyr Gly Gly Phe Leu Lys

1

5

<210> 877

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 877

Tyr Gly Gly Phe Met Arg

1

5

<210> 878

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 878

Tyr Gly Gly Phe Met Arg Arg

1

5

<210> 879

<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 879  
Tyr Gly Gly Phe Met Arg Arg Val Gly  
1 5

<210> 880  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 880  
Tyr Gly Gly Phe Met Arg Gly Leu  
1 5

<210> 881  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 881  
Tyr Gly Gly Phe Met Arg Phe  
1 5

<210> 882  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 882

Tyr Gly Gly Phe Met

1 5

<210> 883

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 883

Tyr Gly Gly Phe Met

1 5

<210> 884

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 884

Tyr Ala Gly Phe Met

1 5

<210> 885

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 885

Tyr Ala Gly Phe Met

1 5

<210> 886  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 886  
Tyr Gly Gly Phe Met Arg Phe  
1 5

<210> 887  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 887  
Tyr Gly Gly Phe Met  
1 5

<210> 888  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 888  
Tyr Ala Gly Phe Met  
1 5

<210> 889  
<211> 4  
<212> PRT  
<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 889

Tyr Gly Phe Pro

1

<210> 890

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 890

Tyr Gly Phe Met

1

<210> 891

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 891

Tyr Gly Gly Phe Met Arg Arg Val

1

5

<210> 892

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 892

Phe Ala Glu Pro Leu Pro Ser Glu Glu Gly Glu Ser Tyr Ser Lys

1	5	10	15
Glu Val Pro Glu Met Glu Lys Arg Tyr Gly Gly Phe Met Arg Phe			
20	25	30	

<210> 893  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 893
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp Met Asp
1 5 10 15
Tyr Gln Lys Arg Tyr Gly Gly Phe Leu
20 25

<210> 894  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 894
Tyr Gly Gly Phe Met Lys Lys Met Asp Glu Leu Tyr Pro Leu Glu Val
1 5 10 15
Glu Glu Glu Ala Asn Gly Gly Glu Val Leu Gly Lys Arg Tyr Gly Gly
20 25 30

Phe Met

<210> 895  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 895

Ser Ser Glu Val Ala Gly Glu Gly Asp Gly Asp Ser Met Gly His Glu  
1 5 10 15

Asp Leu Tyr

<210> 896

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 896

Leu Val Val Tyr Pro Trp  
1 5

<210> 897

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 897

Pro Gly  
1

<210> 898

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 898

Tyr Pro Phe Pro

1

<210> 899

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 899

Tyr Pro Phe Pro Pro

1

5

<210> 900

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 900

Tyr Pro Pro Pro

1

<210> 901

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 901

Arg Tyr Leu Gly Tyr Leu

1

5

<210> 902  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 902  
Ala Ala Ala Tyr Gly Gly Phe Leu  
1 5

<210> 903  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 903  
Ala Ala Ala Tyr Gly Gly Phe Leu  
1 5

<210> 904  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 904  
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp Met Asp  
1 5 10 15

Tyr Gln

<210> 905  
<211> 6  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 905

Tyr Pro Phe Pro Pro Leu

1

5

<210> 906

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 906

Tyr Val Pro Phe Pro Pro Phe

1

5

<210> 907

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 907

Trp Gly

1

<210> 908

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 908

Tyr Arg Phe Lys

1

<210> 909

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 909

Tyr Met Phe His Leu Met Asp

1

5

<210> 910

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 910

Tyr Ala Phe Asp Val Val Gly

1

5

<210> 911

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 911

Tyr Ala Phe Glu Val Val Gly

1

5

<210> 912

<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 912

Tyr Pro Trp Phe

1

<210> 913

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 913

Tyr Pro Trp Phe Phe

1

5

<210> 914

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 914

Tyr Arg

1

<210> 915

<211> 1

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic



Peptide

<400> 915

Tyr

1

<210> 916

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 916

Leu Gly

1

<210> 917

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 917

Pro Gln Arg Phe

1

<210> 918

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 918

Ala Gly Glu Gly Leu Ser Ser Pro Phe Trp Ser Leu Ala Ala Pro Gln

1

5

10

15

Arg Phe

<210> 919

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 919

Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn  
1 5 10 15

Gln

<210> 920

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 920

Tyr Phe Phe  
1

<210> 921

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 921

Tyr Pro Leu Gly  
1

<210> 922  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 922  
Tyr Pro Trp Gly  
1

<210> 923  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 923  
Val Val Tyr Pro Trp Thr Gln  
1 5

<210> 924  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 924  
Leu Val Val Tyr Pro Trp Thr Gln Arg  
1 5

<210> 925  
<211> 2  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 925

Pro Leu

1

<210> 926

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 926

Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn

1

5

10

15

Gln

<210> 927

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 927

Tyr Gly Gly Phe Met Arg Arg Val

1

5

<210> 928

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 928

Ala Lys Ser Gln Gly Gly Ser Asn

1 5

<210> 929

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 929

Leu Glu Asp Gly Pro Lys Phe Leu

1 5

<210> 930

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 930

Arg Lys Asp Val Tyr

1 5

<210> 931

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 931

Gly Glu Gln Arg Lys Asp Val Tyr Val Gln Leu Tyr Leu

1 5 10

<210> 932  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 932  
Ser Asp Ala Ala Val Asp Thr Ser Ser Glu Ile Thr Thr Lys Asp Leu  
1 5 10 15

Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn  
20 25

<210> 933  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 933  
Tyr Gln Ala Lys Ser Gln Gly Gly Ser Asn  
1 5 10

<210> 934  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 934  
Ser Asp Ala Ala Val Asp Thr Ser Ser Glu Ile Thr Thr Lys Asp Leu  
1 5 10 15

Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn  
20 25

<210> 935  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 935  
Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys  
1 5 10 15  
Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln  
20 25 30

Phe Thr Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser  
35 40 45  
Pro Gln Gly Tyr  
50

<210> 936  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 936  
Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg  
1 5 10

<210> 937  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 937  
Ser Phe Gly Cys Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His

1 5 10 15  
 Gln Ile Tyr Phe Thr Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile  
 20 25 30  
 Ser Pro Gln Gly Tyr  
 35

<210> 938  
 <211> 31  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 938  
 Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr Asp Lys Asp  
 1 5 10 15  
 Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser Pro Gln Gly Tyr  
 20 25 30

<210> 939  
 <211> 48  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 939  
 Glu Leu Arg Met Ser Ser Ser Tyr Pro Thr Gly Leu Ala Asp Val Lys  
 1 5 10 15  
 Ala Gly Pro Ala Gln Thr Leu Ile Arg Pro Gln Asp Met Lys Gly Ala  
 20 25 30  
 Ser Arg Ser Pro Glu Asp Ser Ser Pro Asp Ala Ala Arg Ile Arg Val  
 35 40 45



<210> 940  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 940  
Ser Leu Pro Glu Ala Gly Pro Gly Arg Thr Leu Val Ser Ser Lys Pro  
1 5 10 15  
Gln Ala His Gly Ala Pro Ala Pro Pro Ser Gly Ser Ala Pro His Phe  
20 25 30

Leu

<210> 941  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 941  
Tyr Arg Gln Ser Met Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys Arg  
1 5 10 15  
Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln Phe  
20 25 30

Thr Asp Lys Asp Gly Val Ala Pro Arg Ser Lys Ile Ser Lys Ile Ser  
35 40 45

Pro Gln Gly Tyr  
50

<210> 942  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 942

Ala Arg Leu Asp Val Ala Ala Glu Phe Arg Lys Lys Trp Asn Lys Trp  
1 5 10 15

Ala Leu Ser Arg  
20

<210> 943

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 943

Tyr Arg Gln Ser Met Asn Gln Gly Ser Arg Ser Thr Gly Cys Arg Phe  
1 5 10 15

Gly Thr Cys Thr Met Gln Lys Leu Ala His Gln Ile Tyr Gln Ile Tyr  
20 25 30

Gln Phe Thr Asp Lys Asp Lys Asp Gly Met Ala Pro Arg Asn Lys Ile  
35 40 45

Ser Pro Gln Gly Tyr  
50

<210> 944

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 944

Ser Thr Gly Cys Arg Phe Gly Thr Cys Thr Met Gln Lys Leu Ala His  
1 5 10 15

Gln Ile Tyr Gln Phe Thr Asp Lys Asp Lys Asp Gly Met Ala Pro Arg  
 20 25 30

Asn Lys Ile Ser Pro Gln Gly Tyr  
 35 40

<210> 945  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 945  
 Ala Arg Leu Asp Thr Ser Ser Gln Phe Arg Lys Lys Trp Asn Lys Trp  
 1 5 10 15

Ala Leu Ser Arg  
 20

<210> 946  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 946  
 Ala Pro Ser Gly Ala Gln Arg Leu Tyr Gly Phe Gly Leu  
 1 5 10

<210> 947  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 947

Gly Asp Gly Arg Leu Tyr Ala Phe Gly Leu

1

5

10

<210> 948

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 948

Gly Gly Ser Leu Tyr Ser Phe Gly Leu

1

5

<210> 949

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 949

Asp Arg Leu Tyr Ser Phe Gly Leu

1

5

<210> 950

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 950

Val His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn

1

5

10

15

Lys

<210> 951  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 951  
Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met  
1 5 10

<210> 952  
<211> 5  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Synthetic Peptide  
  
<400> 952  
Arg Glu Arg Met Ser  
1 5

<210> 953  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 953  
Ala Lys Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val  
1 5 10 15

Met

<210> 954

<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 954  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30  
Gly Leu Met Val Gly Gly Val Val Ile Ala Thr  
35 40

<210> 955  
<211> 42  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 955  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30  
Gly Leu Met Val Gly Gly Val Val Ile Ala  
35 40

<210> 956  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 956

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val  
35 40

<210> 957

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 957

Tyr Glu Val His His Gln Lys Leu Val Phe Phe .  
1 5 10

<210> 958

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 958

Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met  
1 5 10

<210> 959

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 959

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
20 25

<210> 960

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 960

Val Val Gly Gly Val Met Leu Gly Ile Ile Ala Gly Lys Asn Ser Gly  
1 5 10 15

Val Asp Glu Ala Phe Phe Val Leu Lys Gln His His Val Glu Tyr Gly  
20 25 30

Ser Asp His Arg Phe Glu Ala Asp  
35 40

<210> 961

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 961

Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala  
35 40



<210> 962  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 962  
Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val  
35 40

<210> 963  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 963  
Tyr Glu Val His His Gln Lys Leu Val Phe Phe  
1 5 10

<210> 964  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 964  
Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met  
1 5 10

<210> 965  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 965  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
20 25

<210> 966  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 966  
Val Val Gly Gly Val Met Leu Gly Ile Ile Ala Gly Lys Asn Ser Gly  
1 5 10 15  
Val Asp Glu Ala Phe Phe Val Leu Lys Gln His His Val Glu Tyr Gly  
20 25 30  
Ser Asp His Arg Phe Glu Ala Asp  
35 40

<210> 967  
<211> 42  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 967  
Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys

1

5

10

15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
 20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala  
 35 40

&lt;210&gt; 968

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 968

Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys  
 1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
 20 25 30

Gly Leu Met Val Gly Gly Val Val  
 35 40

&lt;210&gt; 969

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 969

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu  
 1 5 10

&lt;210&gt; 970

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 970

Ile Ile Gly Leu Met

1 5

<210> 971

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 971

Ile Gly Leu Met

1

<210> 972

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 972

Met Leu Gly Ile Ile Ala Gly Lys Asn Ser Gly

1 5 10

<210> 973

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 973

Asn Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Pro His

1

5

10

15

&lt;210&gt; 974

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 974

His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg  
1 5 10 15

His Leu Ser Lys  
20

&lt;210&gt; 975

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 975

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly  
35

&lt;210&gt; 976

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 976

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Gln Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
20 25

<210> 977

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 977

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Gln Val His His Gln Lys  
1 5 10 15

<210> 978

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 978

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val  
35 40

<210> 979

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 979

His Asp Ser Gly Tyr Glu Val His His Gln Lys Leu Val Phe Phe Ala  
1 5 10 15

Gln Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met Val Gly  
20 25 30

Gly Val Val  
35

<210> 980

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 980

Glu Gln Val Thr Asn Val Gly Gly Ala Val Val Thr Gly Val Thr Ala  
1 5 10 15

Val Ala Gln Lys Thr Val Glu Gly Ala Gly Ser Ile Ala Ala Ala Thr  
20 25 30

Gly Phe Val  
35

<210> 981

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 981

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
1 5 10 15

Gly Leu Met Val Gly Gly Val Val

20

<210> 982

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 982

Gly Tyr Val Ile Ile Lys Pro Leu Val Trp Val

1

5

10

<210> 983

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 983

Val His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn

1

5

10

15

Lys

<210> 984

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 984

Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met

1

5

10



<210> 985  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 985  
Arg Glu Arg Met Ser  
1 5

<210> 986  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 986  
Ala Lys Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val  
1 5 10 15  
Met

<210> 987  
<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 987  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala Thr  
35 40

<210> 988

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 988

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala  
35 40

<210> 989

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 989

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val  
35 40

<210> 990

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 990

Tyr Glu Val His His Gln Lys Leu Val Phe Phe  
1 5 10

<210> 991

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 991

Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met  
1 5 10

<210> 992

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 992

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
20 25

<210> 993

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 993

Val Val Gly Gly Val Met Leu Gly Ile Ile Ala Gly Lys Asn Ser Gly  
1 5 10 15

Val Asp Glu Ala Phe Phe Val Leu Lys Gln His His Val Glu Tyr Gly  
20 25 30

Ser Asp His Arg Phe Glu Ala Asp  
35 40

<210> 994

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 994

Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala  
35 40

<210> 995

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 995

Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly Val Val  
35 40

<210> 996  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 996  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu  
1 5 10

<210> 997  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 997  
Ile Ile Gly Leu Met  
1 5

<210> 998  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 998  
Ile Gly Leu Met  
1

<210> 999

<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 999

Met Leu Gly Ile Ile Ala Gly Lys Asn Ser Gly  
1 5 10

<210> 1000

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1000

Asn Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Pro His  
1 5 10 15

<210> 1001

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1001

His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg  
1 5 10 15

His Leu Ser Lys  
20

<210> 1002

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1002

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30

Gly Leu Met Val Gly Gly  
35

<210> 1003

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1003

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Gln Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
20 25

<210> 1004

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1004

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Gln Val His His Gln Lys  
1 5 10 15

<210> 1005

<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1005  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
20 25 30  
Gly Leu Met Val Gly Gly Val Val  
35 40

<210> 1006  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1006  
His Asp Ser Gly Tyr Glu Val His His Gln Lys Leu Val Phe Phe Ala  
1 5 10 15  
Gln Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met Val Gly  
20 25 30  
Gly Val Val  
35

<210> 1007  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide



<400> 1007

Glu Gln Val Thr Asn Val Gly Gly Ala Val Val Thr Gly Val Thr Ala  
1 5 10 15

Val Ala Gln Lys Thr Val Glu Gly Ala Gly Ser Ile Ala Ala Ala Thr  
20 25 30

Gly Phe Val  
35

<210> 1008

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1008

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
1 5 10 15

Gly Leu Met Val Gly Gly Val Val  
20

<210> 1009

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1009

Gly Tyr Val Ile Ile Lys Pro Leu Val Trp Val  
1 5 10

<210> 1010

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1010

Arg Leu Glu Lys Arg Asp Val Lys Ala Val Cys Ser Gln Glu Ala Met  
1 5 10 15

Thr Gly Pro Cys Arg Ala Val Met Pro Arg Trp Tyr Phe Asp Leu Ser  
20 25 30

Lys Gly Lys Cys Val Arg Phe Ile Tyr Gly Gly Cys Gly Gly Asn Arg  
35 40 45

Asn Asn Phe Glu Ser Glu Asp Tyr Cys Met Ala Val Cys Lys Ala  
50 55 60

<210> 1011

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1011

Asn Ser Ser Cys Gly Glu Gly Asn His Leu Pro Thr Thr Pro Cys Tyr  
1 5 10 15

Leu Gln Trp Gly Thr His Arg Glu Phe Leu Arg Arg Phe Ser Ile Trp  
20 25 30

Asn His Gly His Leu His Met  
35

<210> 1012

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1012

Ala Gly Arg Gly Lys Gln Gly Gly Lys Val Arg Ala Lys Ala Lys Thr

1 5 10 15

Arg Ser Ser Arg Ala Gly Leu Gln Phe Pro Val Gly Arg Val His Arg  
20 25 30

Leu Leu Arg Lys Gly Asn Tyr  
35

<210> 1013

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1013

Thr Arg Ser Ser Arg Ala Gly Leu Gln Phe Pro Val Gly Arg Val His  
1 5 10 15

Arg Leu Leu Arg Lys  
20

<210> 1014

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1014

Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg  
1 5 10 15

Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala  
20 25 30

Thr Gln Ile Ala Lys  
35

<210> 1015

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1015

Ser Trp Leu Ser Lys Thr Ala Lys Lys Leu Glu Asn Ser Ala Lys Lys  
1 5 10 15

Arg Ile Ser Glu Gly Ile Ala Ile Ala Ile Gln Gly Gly Pro Arg Cys  
20 25 30

<210> 1016

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1016

Gly Ile Met Ser Ile Val Lys Asp Val Ala Lys Asn Ala Ala Lys Gly  
1 5 10 15

Ala Leu Ser Thr Leu Ser Thr Leu Ser Cys Lys Leu Ala Lys Thr  
20 25 30

<210> 1017

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1017

Phe Leu Gly Ala Leu Phe Lys Val Ala Ser Lys Val Leu Pro Ser Val  
1 5 10 15

Lys Cys Ala Ile Thr Lys Lys Cys  
20

<210> 1018  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1018  
Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg  
1 5 10

<210> 1019  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1019  
Arg Gly Gly Arg Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val  
1 5 10 15

Gly Arg

<210> 1020  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1020  
Arg Arg Trp Cys Tyr Arg Lys Cys Tyr Lys Gly Tyr Cys Tyr Arg Lys  
1 5 10 15

Cys Arg

<210> 1021

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1021

Arg Trp Lys Ile Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg  
1 5 10 15

Asp Gly Ile Val Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala  
20 25 30

Ala Thr Ile  
35

<210> 1022

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1022

Arg Leu Cys Arg Ile Val Val Ile Arg Val Cys Arg  
1 5 10

<210> 1023

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1023

Thr Arg Ser Ser Arg Ala Gly Leu Gln Phe Pro Val Gly Arg Val His  
1 5 10 15

Arg Leu Leu Arg Lys  
20

<210> 1024

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1024

Tyr Pro Pro Gly Pro Leu Ala Pro Pro Gln Pro Phe Gly Pro  
1 5 10

<210> 1025

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1025

Val Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr  
1 5 10 15

Ala Ser Gln Gln Gly Arg  
20

<210> 1026

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1026

Ala Asp Val Leu Thr Thr Gly Ala Gly Asn Pro Val Gly Asp Lys  
1 5 10 15

<210> 1027

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1027

Met Ala Ala Val Ser Met Ser Val Ala Leu Arg Gln Ala Leu Trp Gly  
1 5 10 15

Arg Arg Val Ala Thr Val Ala Ala Val Ser Val Ser Lys Val Ser Thr  
20 25 30

Arg Ser Leu Ser Thr Ser Thr Trp Arg Leu  
35 40

<210> 1028

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1028

Gly Ile Gly Lys Phe Lys His Ser Ala Gly Lys Phe Gly Lys Ala Phe  
1 5 10 15

Val Gly Glu Ile Met Lys Ser  
20

<210> 1029

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic



Peptide

<400> 1029

Leu Arg Asp Leu Val Ser Tyr Cys Arg Ala Arg Gly Lys Gly Arg Glu  
1 5 10 15

Arg Met Asn Gly Thr Arg Lys Gly His Leu Leu Tyr Met  
20 25

<210> 1030

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1030

Ser Gln Asn Tyr  
1

<210> 1031

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1031

Arg Leu Cys Arg Ile Val Val Ile Arg Val Cys Arg  
1 5 10

<210> 1032

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1032

Asn Gln Gly Arg His Phe Cys Gly Gly Ala Leu Ile His Ala Arg Phe  
1 5 10 15

Val Met Thr Ala Ala Ser Cys Phe Gln  
20 25

<210> 1033

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1033

Pro Phe

1

<210> 1034

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1034

Cys Asn Leu Ala Val Ala Ala Ala Ser His Ile Tyr Gln Asn Gln Phe  
1 5 10 15

Val Gln

<210> 1035

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1035

Tyr Arg Val Arg Phe Leu Ala Lys Glu Asn Val Thr Gln Asp Ala Glu  
1 5 10 15

Asp Asn Cys

<210> 1036

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1036

Lys Trp Lys Leu Phe Lys Lys Ile Gly Ala Val Leu Lys Val Leu  
1 5 10 15

<210> 1037

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1037

Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg  
1 5 10 15

Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala  
20 25 30

Lys Ala Leu  
35

<210> 1038

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1038

Thr Tyr Ile Cys Glu Val Glu Asp Gln Lys Glu Glu  
1 5 10

<210> 1039

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1039

Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly  
1 5 10 15

Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys  
20 25

<210> 1040

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1040

Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His  
1 5 10 15

Ala Gly Lys Ala Ala Leu Gly Ala Ala Ala Asp Thr Ile Ser Gln Gly  
20 25 30

Thr Gln

<210> 1041

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1041

Gly Val Leu Ser Asn Val Ile Gly Tyr Leu Lys Lys Leu Gly Thr Gly  
1 5 10 15

Ala Leu Asn Ala Val Leu Lys Gln  
20

<210> 1042

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1042

Val Glu Pro Ile Pro Tyr  
1 5

<210> 1043

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1043

Arg Arg Trp Gln Trp Arg Met Lys Lys Leu Gly  
1 5 10

<210> 1044

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1044

Asp Ala Glu Ala Val Gly Pro Glu Ala Phe Ala Asp Gln Asp Leu Asp  
1 5 10 15

Glu Arg Glu Val Arg  
20

<210> 1045

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1045

Ser Ile Gly Ser Leu Ala Lys  
1 5

<210> 1046

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1046

Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe  
1 5 10 15

Val Gly Glu Ile Met Lys Ser  
20

<210> 1047

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1047

Gly Ile Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe  
1 5 10 15

Val Gly Glu Ile Met Asn Ser  
20

<210> 1048

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1048

Tyr Leu Val Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro  
1 5 10 15

Thr Glu Ile Ile Cys Pro Thr Glu Ile Ile Gly  
20 25

<210> 1049

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1049

Leu Val Gln Ala Phe Gln Gly Lys Val Asn Val Phe Leu Gln Phe  
1 5 10 15

<210> 1050

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1050

Gly Leu Phe Ile Ile Asp Tyr Thr Asp Glu Met Gly Glu Val Pro Ala  
1 5 10 15

Gly Gly Lys

<210> 1051

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1051

Asp Glu Val Asp  
1

<210> 1052

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1052

Asp Glu Val Asp  
1

<210> 1053

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1053



Val Ala Asp

1

<210> 1054

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1054

Val Ala Asp

1

<210> 1055

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1055

Asp Pro Met Ser Ser Thr Tyr Ile Glu Glu Leu Gly Lys Arg Glu Val

1

5

10

15

Thr Ile Pro Pro Lys Tyr Arg Glu Leu Leu Ala

20

25

<210> 1056

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1056

Val Ala Asp Met

1

<210> 1057  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1057  
Asp Glu Val Asp  
1

<210> 1058  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1058  
Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro  
1 5 10 15

Tyr Val Ala Asp  
20

<210> 1059  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1059  
Tyr Val Ala Asp Ala Pro Lys  
1 5

<210> 1060  
<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1060

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro  
1 5 10 15

Asp Glu Val Asp  
20

<210> 1061

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1061

Tyr Val Ala Asp  
1

<210> 1062

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1062

Tyr Val Ala Asp  
1

<210> 1063

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1063

Tyr Val Ala Asp

1

<210> 1064

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1064

Val Phe

1

<210> 1065

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1065

Leu Leu Leu

1

<210> 1066

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1066

Tyr Val Ala Asp

1

<210> 1067  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1067  
Val Glu Ile Asp  
1

<210> 1068  
<211> 1  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide  
  
<400> 1068  
Asp  
1

<210> 1069  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1069  
Asp Glu Val Asp Ala Pro Lys  
1 5

<210> 1070  
<211> 21  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1070

Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Val Arg Val Val Ala Leu  
1 5 10 15

Phe Tyr Phe Ala Ser  
20

<210> 1071

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1071

Ala Asn Arg Leu Phe Gly Glu Lys  
1 5

<210> 1072

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1072

Gly Gly Gly Gly Asp Ile His Gln Gly Phe Gln Ser Leu Leu Thr Glu  
1 5 10 15

Val Asn Lys

<210> 1073

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1073

Gly Asn Thr Ala Ala Gln Met Ala Gln Ile Leu Ser Phe Asn  
1 5 10

<210> 1074

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1074

Gln Gly Leu Trp Leu Met Asn Val Leu Arg Val Gly Trp His His His  
1 5 10 15  
Leu Gln Pro Arg Thr Val Pro Glu Asn  
20 25

<210> 1075

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1075

Thr Gly His Gly Gly Pro Gln Phe Val Ala Asp His Pro Phe Leu Phe  
1 5 10 15  
Leu Ile Met His Lys Ile Thr Asn Cys Ile Leu Phe Phe Gly Arg Phe  
20 25 30  
Ser Ser Pro  
35

<210> 1076  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1076

Ala Pro Arg Leu Arg Phe Tyr Ser Leu  
1 5

<210> 1077

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1077

Ala Pro Arg Leu Arg Phe Tyr Ser  
1 5

<210> 1078

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1078

Ala Pro Arg Leu Arg Phe Tyr  
1 5

<210> 1079

<211> 5

<212> PRT

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1079

Arg Leu Arg Phe His

1 5

<210> 1080

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1080

Arg Leu Arg Phe Asp

1 5

<210> 1081

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1081

Leu Lys Lys Tyr Lys Val Pro Gln Leu Glu Ile Val Pro Asn Ser Ala

1 5 10 15

Glu Glu Arg Leu His Ser Met

20

<210> 1082

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1082

Gln Lys Leu Gly Asn Gln Trp Ala Val Gly His Leu Met  
1 5 10

<210> 1083

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1083

Trp Ala Val Gly His Leu Met  
1 5

<210> 1084

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1084

Glu Gln Arg Leu Gly Asn Gln Trp Ala Val Gly His Leu Met  
1 5 10

<210> 1085

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1085

Glu Gln Arg Leu Gly Asn Gln Trp Ala Val Gly His Leu Leu  
1 5 10

<210> 1086

<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1086

Phe Gln Trp Ala Val Gly His Leu  
1 5

<210> 1087

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1087

Gln Arg Leu Gly Asn Gln Trp Ala Val Gly Phe Leu Met  
1 5 10

<210> 1088

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1088

Gln Arg Leu Gly Asn Gln Trp Ala Val Gly Phe Leu Leu  
1 5 10

<210> 1089

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1089

Gln Arg Tyr Gly Asn Gln Trp Ala Val Gly His Leu Met  
1 5 10

<210> 1090

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1090

Gln Arg Tyr Gly Asn Gln Trp Ala Val Gly Phe Leu Met  
1 5 10

<210> 1091

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1091

Met Pro Leu Pro Pro His Pro Gly His Pro Gly Tyr Ile Asn Phe Ser  
1 5 10 15

Tyr Glu Val Leu Thr  
20

<210> 1092

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1092

Pro Phe Tyr Gly Pro Val

1 5

<210> 1093

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1093

Tyr Leu Tyr Gln Trp Leu Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu

1 5 10 15

Glu Pro Arg Arg Val Cys Leu Asn Pro Asp Cys Asp Glu Leu Ala Asp

20 25 30

His Ile Gly Phe Gln Glu Ala Tyr Arg Arg Phe Tyr Gly Pro Val

35 40 45

<210> 1094

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1094

Leu Val Val Tyr Pro Trp

1 5

<210> 1095

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1095

Tyr Leu Tyr Gln Trp Leu Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu  
1 5 10 15

Pro Arg Arg Val Cys Leu Asn Pro Asp Cys Asp Glu Leu Ala Asp His  
20 25 30

Ile Gly Phe Gln Glu Ala Tyr Arg Arg Phe Tyr Gly Pro Val  
35 40 45

<210> 1096

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1096

Gly Phe Gln Glu Ala Tyr Arg Arg Phe Tyr Gly Pro Val  
1 5 10

<210> 1097

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1097

Pro Tyr Gln Glu Ala Phe Arg Arg Phe Phe Gly Pro Val  
1 5 10

<210> 1098

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1098

Val Pro Ile Tyr Glu Lys Lys Tyr Gly Gln Val Pro Met Cys Asp Ala  
 1 5 10 15

Gly Glu Gln Cys Ala Val Arg Lys Gly Ala Arg Ile Gly Lys Leu Cys  
 20 25 30

Asp Cys Pro Arg Gly Thr Ser Cys Asn Ser Phe Leu Leu Lys Cys Leu  
 35 40 45

<210> 1099

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1099

Val Pro Ile Tyr Glu Lys Lys Tyr Gly Gln Val Pro Met Cys Asp Ala  
 1 5 10 15

Gly Glu Gln Cys Ala Val Arg Lys Gly Ala Arg Ile Gly Lys Leu Cys  
 20 25 30

Asp Cys Pro Arg Gly Thr Ser Cys Asn Ser Phe Leu Leu Lys Cys Leu  
 35 40 45

<210> 1100

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1100

Val Pro Ile Tyr Glu Lys Lys Tyr Gly Gln Val Pro Met Cys Asp Ala  
 1 5 10 15

Gly Glu Gln Cys Ala Val Arg Lys Gly Ala Arg Ile Gly Lys Leu Cys  
20 25 30

Asp Cys Pro Arg Gly Thr Ser Cys Asn Ser Phe Leu Leu Lys Cys Leu  
35 40 45

<210> 1101

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1101

Ala Gly Ala Thr Val Gln Val Thr Leu Asp Gly Val Pro Ala Ala Ala  
1 5 10 15

Pro Gly Gln Pro Ala Gln Leu Gln Leu Asn Ala Thr  
20 25

<210> 1102

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1102

Phe Leu Phe Leu Phe  
1 5

<210> 1103

<211> 30

<212> PRT

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1103

Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr  
1 5 10 15

Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys  
20 25 30

<210> 1104

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1104

Met Leu Phe  
1

<210> 1105

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1105

Met Leu Phe Lys  
1

<210> 1106

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1106  
Met Leu Phe Lys  
1

<210> 1107  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1107  
Trp His Val Ala Ala Asn  
1 5

<210> 1108  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1108  
Met Leu Thr Glu Leu Glu Lys Ala Leu Asn Ser Ile Ile Asp Val Tyr  
1 5 10 15

His Lys Tyr Ser Leu Ile Lys Gly Asn  
20 25

<210> 1109  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1109  
His Trp Asp Thr Thr Gln Ser Leu Lys Gln Leu Glu Glu Arg Ala Ala  
1 5 10 15

Trp Asn Val

<210> 1110

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1110

Gly Pro Val Ser Ala Val Leu Thr Glu Leu Arg Cys Thr Cys Leu Arg

1

5

10

15

Val Thr Leu Arg

20

<210> 1111

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1111

Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu

1

5

10

15

Asn Gly Lys Ser Asn

20

<210> 1112

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1112  
Arg Glu Gly Ser Tyr Phe Phe Gly Asp Asn Ala  
1 5 10

<210> 1113  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1113  
Tyr Ser Asp Asp Glu Gly Ala Ser Trp Ser Asp Leu Asp Ile Val Ser  
1 5 10 15

Phe Ser Lys

<210> 1114  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1114  
Val Ala Arg Thr Leu Leu Val Phe Glu Val Gln Gln Pro Phe Leu Phe  
1 5 10 15

Val Leu

<210> 1115  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1115

Asp Phe Arg Phe Leu Arg Cys Ser Thr Arg Gln Cys Trp Asn

1

5

10

<210> 1116

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1116

Cys Asn Thr Gly Gln Leu Cys Pro Val Glu

1

5

10

<210> 1117

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1117

Ser Val Asp Arg Ser Gly Asn Val His His Gln Phe Gln Lys Leu Thr

1

5

10

15

Leu Glu

<210> 1118

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1118

Leu His Glu Trp Thr Lys Pro Glu Asn Leu Asp Phe Ile Glu Val Asn

1

5

10

15

Val Leu Pro

<210> 1119

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1119

Val Leu Glu Leu Pro Tyr Gln Gly Glu Glu Leu Ser Met Val Ile Leu

1

5

10

15

Leu Pro Asp Asp Ile Glu Asp Glu Ser Thr Gly Leu Lys

20

25

<210> 1120

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1120

Thr Tyr Gly Ala Asp Leu Ala Ser Val Asp Phe Gln His Ala Ser Glu

1

5

10

15

Asp Ala Arg

<210> 1121

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1121  
 Glu Arg Pro Pro Leu Gln Gln Pro Pro His Arg Asp  
 1 5 10

<210> 1122  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1122  
 Tyr Glu Arg Pro Pro Leu Gln Gln Pro Pro His Arg Asp Lys Lys Pro  
 1 5 10 15  
 Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys  
 20 25

<210> 1123  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1123  
 Ser Ala Leu Pro Leu Glu Ser Gly Pro Thr Gly Gln Asp Ser Val Gln  
 1 5 10 15

Asp Ala Thr Gly  
 20

<210> 1124  
 <211> 31  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1124

Thr Gly Leu Leu Thr Phe Leu Ala Trp Trp His Glu Trp Ala Ser Gln  
1 5 10 15

Asp Ser Ser Ser Thr Ala Phe Glu Gly Gly Thr Pro Glu Leu Ser  
20 25 30

<210> 1125

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1125

Arg Gly Asp Cys  
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<210> 1126

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1126

Arg Gly Asp Ser  
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<210> 1127

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1127

Arg Gly Asp Val  
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<210> 1128  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1128  
Arg Gly Glu Ser  
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<210> 1129  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1129  
Gly Arg Gly Asp Ser Pro Ala  
1 5

<210> 1130  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1130  
Arg Gly Asp Phe Val  
1 5

<210> 1131  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1131

Pro Leu Tyr Lys Lys Ile Ile Lys Lys Leu Leu Ser

1

5

10

<210> 1132

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1132

Glu Cys Glu Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu

1

5

10

15

Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys

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Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala

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Thr

<210> 1133

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1133

Gly Arg Ala Asp Ser Pro Lys

1

5

<210> 1134

<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1134

Phe Asn Lys His Thr Glu Ile Ile Glu Glu Asp Thr Asn Lys Asp Lys  
1 5 10 15

Pro Ser Tyr Gln Phe Gly Gly His Asn Ser Val Asp Phe Glu Glu Asp  
20 25 30

Thr Leu Pro Lys Val  
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<210> 1135

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1135

Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val Arg  
1 5 10 15

<210> 1136

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1136

Tyr Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val  
1 5 10 15

Arg

<210> 1137  
<211> 13  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1137

Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg  
1 5 10

<210> 1138  
<211> 14  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1138

Glu Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg  
1 5 10

<210> 1139  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1139

Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Tyr  
1 5 10

<210> 1140  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1140

Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro Arg Pro Arg  
1 5 10 15

Gly Val

<210> 1141

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1141

Trp Gln Pro Pro Arg Ala Arg Ile  
1 5

<210> 1142

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1142

Glu Ile Leu Asp Val  
1 5

<210> 1143

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1143

Glu Ile Leu Asp Val Pro Ser Thr

1

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<210> 1144

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1144

Gly Arg Ala Asp Ser Pro

1

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<210> 1145

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1145

Gly Arg Gly Asp Ser

1

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<210> 1146

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1146

Gly Arg Gly Asp Ser Pro

1

5

<210> 1147  
<211> 7  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1147  
Gly Arg Gly Asp Ser Pro Cys  
1 5

<210> 1148  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1148  
Gly Arg Gly Asp Thr Pro  
1 5

<210> 1149  
<211> 5  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1149  
Gly Arg Gly Glu Ser  
1 5

<210> 1150  
<211> 6  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1150

Gly Arg Gly Glu Ser Pro  
1 5

<210> 1151

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1151

Gly Gly Asp Ser Pro  
1 5

<210> 1152

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1152

Gly Gln Gln His His Leu Gly Gly Ala Lys Gln Ala Gly Asp Val  
1 5 10 15

<210> 1153

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1153

Gly Pro Arg



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<210> 1154  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1154  
Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys  
1 5 10

<210> 1155  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1155  
Gly Gly Arg Gly Asp Ser Pro Cys Ala  
1 5

<210> 1156  
<211> 6  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1156  
Gly Arg Gly Asp Ser Pro  
1 5

<210> 1157  
<211> 6  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1157

Gly Arg Gly Asp Asn Pro  
1 5

<210> 1158

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1158

Trp Gln Pro Pro Arg Ala Arg Ile  
1 5

<210> 1159

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1159

Tyr Ile Gly Ser Arg  
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<210> 1160

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1160  
Leu Asp Val  
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<210> 1161  
<211> 5  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1161  
Leu Asp Val Pro Ser  
1 5

<210> 1162  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1162  
Lys Gly Asp Ser  
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<210> 1163  
<211> 6  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1163  
Gly Ala Val Ser Thr Ala  
1 5

<210> 1164

<211> 6  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1164

Trp Thr Val Pro Thr Ala  
1 5

<210> 1165

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1165

Arg Gly Asp Ser Pro  
1 5

<210> 1166

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1166

Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu  
1 5 10

<210> 1167

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1167

Arg Glu Asp Val

1

<210> 1168

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1168

Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro

1

5

10

<210> 1169

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1169

Arg Gly Asp Thr

1

<210> 1170

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1170

Arg Asp Ser

1

<210> 1171  
<211> 5  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1171  
Ser Asp Gly Arg Gly  
1 5

<210> 1172  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1172  
Ser Asp Gly Arg  
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<210> 1173  
<211> 5  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1173  
Tyr Arg Gly Asp Ser  
1 5

<210> 1174  
<211> 42  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1174

Tyr Ala Lys Leu Leu Gly His Gln Asn Leu Lys Gln Lys Ile Lys His  
1 5 10 15

Val Val Lys Leu Lys Asp Glu Asn Ser Gln Leu Lys Ser Glu Val Ser  
20 25 30

Lys Leu Arg Cys Gln Leu Ala Lys Lys Lys  
35 40

<210> 1175

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1175

Phe Met Arg Phe  
1

<210> 1176

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1176

Phe Met Arg Phe  
1

<210> 1177

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1177

Phe Met Arg Phe

1

<210> 1178

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1178

Phe Met Arg Phe

1

<210> 1179

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1179

Leu Pro Leu Arg Phe

1

5

<210> 1180

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1180

Tyr Leu Pro Leu Arg Phe



1

5

<210> 1181

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1181

Trp Arg Phe

1

<210> 1182

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1182

Tyr Phe Met Arg Phe

1

5

<210> 1183

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1183

Tyr Met Arg Phe

1

<210> 1184

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1184

Ser Asp Arg Asn Phe Leu Arg Phe  
1 5

<210> 1185

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1185

Ser Asp Arg Asn Phe Leu Arg Phe  
1 5

<210> 1186

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1186

Asp Pro Phe Leu Arg Phe  
1 5

<210> 1187

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1187

Glu Ile Leu Glu Val Pro Ser Thr  
1 5

<210> 1188

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1188

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val  
1 5 10 15

Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser  
20 25 30

<210> 1189

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1189

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val  
1 5 10 15

Gly Asn His

<210> 1190

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1190

Met Ala Arg Gly Ser Ala Leu Leu Leu Ala Ser Leu Leu Leu Ala Ala  
1 5 10 15

Ala Leu Ser Ala Ser Ala Gly Leu Trp Ser Pro Ala Lys Glu  
20 25 30

<210> 1191

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1191

Glu Leu Arg Pro Glu Asp Asp Met Lys Pro Gly Ser Phe Asp Arg Ser  
1 5 10 15

Ile Pro Glu Asn Asn Ile Met Arg  
20

<210> 1192

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1192

Thr Ile Ile Glu Phe Leu Ser Phe Leu His Leu Lys Glu Ala Gly Ala  
1 5 10 15

Leu Asp Arg Leu Leu Asp Leu Pro Ala Ala Ala Ser Ser Glu Asp Ile  
20 25 30

Glu Arg Ser  
35

<210> 1193

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1193

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile  
1 5 10 15

Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala  
20 25

<210> 1194

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1194

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile  
1 5 10 15

<210> 1195

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1195

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile  
1 5 10 15

Asp Asn His Arg Ser Phe Ser Asp Lys His Gly Leu Thr  
20 25

<210> 1196

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1196

Thr Lys Glu Lys Arg Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu  
1 5 10 15

Gly Pro His Ala Ile Asp Asn His Arg Ser Phe Ser Asp Lys His Gly  
20 25 30

Leu Thr Gly Lys Arg Glu Leu Pro  
35 40

<210> 1197

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1197

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Pro Pro Gly  
1 5 10 15

Phe Ser Pro Phe Arg  
20

<210> 1198

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1198

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Pro Pro Ala  
1 5 10 15

Leu Ala Leu Ala

<210> 1199  
 <211> 24  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1199  
 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Arg Pro Lys  
 1 5 10 15

Pro Gln Gln Trp Phe Trp Leu Leu  
 20

<210> 1200  
 <211> 41  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1200  
 Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Gly Phe Asp Arg Leu  
 1 5 10 15

Gln Ser Glu Asp Lys Ala Ile Arg Thr Ile Met Glu Phe Leu Ala Phe  
 20 25 30

Leu His Leu Lys Glu Ala Gly Ala Leu  
 35 40

<210> 1201  
 <211> 26  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1201

Leu Gln Ser Glu Asp Lys Ala Ile Arg Thr Ile Met Glu Phe Leu Ala  
1 5 10 15

Phe Leu His Leu Lys Glu Ala Gly Ala Leu  
20 25

<210> 1202

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1202

Thr Ile Met Glu Phe Leu Ala Phe Leu His Leu Lys Glu Ala Gly Ala  
1 5 10 15

Leu

<210> 1203

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1203

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Gln Gln Phe  
1 5 10 15

Phe Gly Leu Met  
20

<210> 1204

<211> 15

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1204

Gly Trp Thr Leu Asn Thr Ala Trp Trp Leu Leu Gly Pro His Ala  
1 5 10 15

<210> 1205

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1205

Gly Trp Thr Leu Asn Thr Ala Trp Trp Leu Leu Gly Pro His Ala  
1 5 10 15

<210> 1206

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1206

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Pro Pro Ala  
1 5 10 15

Leu Ala Leu Ala

20

<210> 1207

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1207

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Arg Pro Lys  
1 5 10 15

Pro Gln Gln Trp Phe Trp Leu Leu  
20

<210> 1208

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1208

Asp Glu Pro Asn Ser Asp Gln Phe Ile Gly Leu Met  
1 5 10

<210> 1209

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1209

Lys Lys Lys Asp Lys Val Lys Lys Gly Gly Pro Gly Ser Glu Cys Ala  
1 5 10 15

Glu Trp Ala Trp Gly Pro Cys Thr Pro Ser Ser Lys Asp Cys Gly Val  
20 25 30

Gly Phe Arg Glu Gly Thr Cys Gly Ala Gln Thr Gln Arg Ile Arg Cys  
35 40 45

Arg Val Pro Cys Asn Trp Lys Lys Glu Phe Gly Ala Asp Cys Lys Lys  
50 55 60

Phe Glu Asn Trp Gly Ala Cys Asp Gly Gly Thr Gly Thr Lys Val Arg  
65 70 75 80

Gln Gly Thr Leu Lys Lys Ala Arg Tyr Asn Ala Gln Cys Gln Glu Thr  
85 90 95

Ile Arg Val Thr Lys Pro Cys Thr Pro Lys Thr Lys Ala Lys Ala Lys  
100 105 110

Ala Lys Lys Gly Lys Gly Lys Asp  
115 120

<210> 1210

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1210

Ala Asp Cys Lys Lys Phe Glu Asn Trp Gly Ala Cys Asp Gly Gly Thr  
1 5 10 15

Gly Thr Lys Val Arg Gln Gly Thr Leu Lys Lys Ala Arg Tyr Asn Ala  
20 25 30

Gln Cys Gln Glu Thr Ile Arg Val Thr Lys Pro Cys Thr Pro Lys Thr  
35 40 45

Lys Ala Lys Ala Lys Ala Lys Lys Gly Lys Gly Lys Asp  
50 55 60

<210> 1211

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1211

Cys His Ser Gly Tyr Val Gly Val Arg Cys  
1 5 10

<210> 1212

<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1212  
Ala Asn Phe Leu Val Trp Glu Ile Val Arg Lys Lys Pro  
1 5 10

<210> 1213  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1213  
Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys  
1 5 10 15  
Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys  
20 25 30  
Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu  
35 40 45

Leu Ala  
50

<210> 1214  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1214  
Val Val Ser His Phe Asn Lys Cys Pro Asp Ser His Thr Gln Tyr Cys  
1 5 10 15

Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Glu Lys Pro Ala Cys  
 20 25 30

Val Cys His Ser Gly Tyr Val Gly Val Arg Cys Glu His Ala Asp Leu  
 35 40 45

Leu Ala  
 50

<210> 1215  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1215  
 Cys His Ser Gly Tyr Val Gly Val Arg Cys  
 1 5 10

<210> 1216  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1216  
 Cys His Ser Gly Tyr Val Gly Val Arg Cys  
 1 5 10

<210> 1217  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1217

Pro Pro Gly His Phe Lys

1

5

<210> 1218

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1218

Arg Thr Gly Gln Tyr Lys

1

5

<210> 1219

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1219

Phe Asn Leu Pro Leu Gly Asn Tyr Lys Lys Pro

1

5

10

<210> 1220

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1220

Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His

1

5

10

15

Phe Lys Asp Pro Lys Arg Leu Tyr

20

<210> 1221  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1221

His Ala Glu Lys His Trp Phe Val Gly Leu  
1 5 10

<210> 1222  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1222

Cys Met His Ile Glu Ser Leu Asp Ser Tyr Thr Cys  
1 5 10

<210> 1223

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1223

Asp Val Val Asp Ala Asp Glu Tyr Leu Ile Pro Gln  
1 5 10

<210> 1224

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1224

Cys Tyr Ala Ala Pro Leu Lys Pro Ala Lys Ser Cys  
1 5 10

<210> 1225

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1225

Tyr Phe Asn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro  
1 5 10 15

Gln Thr

<210> 1226

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1226

Ala Leu Leu Glu Thr Tyr Cys Ala Thr Pro Ala Lys Ser Glu  
1 5 10

<210> 1227

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic



Peptide

<400> 1227

Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr  
1 5 10

<210> 1228

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1228

Ser Arg Val Ser Arg Arg Ser Arg  
1 5

<210> 1229

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1229

Tyr Ser Arg Val Ser Arg Arg Ser Arg  
1 5

<210> 1230

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1230

Gly His Lys  
1

<210> 1231  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1231

Ser Val Arg Val Glu Gln Val Val Lys Pro Pro Gln Asp Lys Thr Glu  
1 5 10 15

Ser Glu Asn Thr Ser Asp  
20

<210> 1232  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1232

Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser Asp Cys Gly  
1 5 10 15

Glu Trp Gln Trp Ser Val Cys Val  
20

<210> 1233  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1233

Ser Phe Leu Pro Ser Ser  
1 5

<210> 1234  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1234  
Ser Ala Gln Thr Asn Arg His Ile Leu Arg Phe Asn Arg Pro Phe  
1 5 10 15

<210> 1235  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1235  
Ile Pro Val Lys Gln Ala Val His Gly Gln Phe Leu Leu Pro Lys Gln  
1 5 10 15  
Glu Lys

<210> 1236  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1236  
Leu Ala Gly Glu Thr Gly Gln Glu Ala Ala Pro Leu Asp Gly Val Leu  
1 5 10 15

Ala Asn

<210> 1237  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1237  
 Ala Leu Lys Arg Gln Gly Arg Thr Leu Tyr Gly Phe Gly Gly  
 1 5 10

<210> 1238  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1238  
 Gly Met Asp Val Leu Gly Arg Pro Lys Ile Pro Leu Glu Thr Pro Ala  
 1 5 10 15  
 Tyr Thr Gly Gln Pro Trp His Cys Gln His Cys Phe Leu Leu  
 20 25 30

<210> 1239  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1239  
 Met Asn Thr Ile Thr Ile Cys Lys Phe Asp Val Leu Asp Ala Glu Leu  
 1 5 10 15  
 Leu Ser Thr Val Glu Gly Gly Tyr Ser Gly Lys Asp Cys Leu Lys Asp  
 20 25 30

Met Gly Gly Tyr Ala Leu Ala Gly Ala Gly Ser  
35 40

<210> 1240  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1240  
Gly Ala Asp Lys Thr Val Lys Gly Pro Asp Gly Leu Thr Ala Leu Glu  
1 5 10 15

Ala Thr Asp Asn Gln Ala Ile Asp Tyr Gly Gly Phe Met Glu Val Val  
20 25 30

Tyr Val Asp Ala Thr Lys  
35

<210> 1241  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1241  
Cys Lys Gln Leu Gln Arg Asp Arg Gln Val Tyr Arg Ala Thr His Arg  
1 5 10 15

<210> 1242  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1242

Cys Glu Gly Asn Val Arg Val Ser Arg Glu Leu Ala Gly His Thr Gly  
 1 5 10 15

Tyr

<210> 1243  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1243  
 Cys Gly Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Lys  
 1 5 10 15

<210> 1244  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1244  
 Cys Asn Leu Lys Glu Asp Gly Ile Ser Ala Ala Lys Asp Val Lys  
 1 5 10 15

<210> 1245  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1245  
 Cys Lys Gln Leu Gln Lys Asp Lys Gln Val Tyr Arg Ala Thr His Arg  
 1 5 10 15

<210> 1246  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1246  
Glu Glu Gln Gly Met Leu Pro Glu Asp Leu Ser  
1 5 10

<210> 1247  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1247  
Pro Gly Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys  
1 5 10 15

<210> 1248  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1248  
Pro Asn Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys  
1 5 10 15

<210> 1249  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1249

Asn Asp Asp Cys Glu Leu Cys Val Asn Val Ala Cys Thr Gly Cys Leu  
1 5 10 15

<210> 1250

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1250

Ser Thr Pro Leu Met Ser Trp Pro Trp Ser Pro Ser Ala Leu Arg Leu  
1 5 10 15

Leu Gln Arg Pro Pro Glu Glu Pro Ala Ala His Ala Asn Cys His Arg  
20 25 30

<210> 1251

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1251

Tyr Ser Thr Pro Leu Met Ser Trp Pro Trp Ser Pro Ser Ala Leu Arg  
1 5 10 15

Leu Leu Gln Arg Pro Pro Glu Glu Pro Ala Ala His Ala Asn Cys His  
20 25 30

Arg



<210> 1252  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1252  
His Asn Lys Gln Glu Gly Arg Asp His Asp Lys Ser Lys Gly His Phe  
1 5 10 15  
His Arg Val Val Ile His His Lys Gly Gly Lys Ala His Arg Gly  
20 25 30

<210> 1253  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1253  
Tyr His Asn Lys Gln Glu Gly Arg Asp His Asp Lys Ser Lys Gly His  
1 5 10 15  
Phe His Arg Val Val Ile His His Lys Gly Gly Lys Ala His Arg Gly  
20 25 30

<210> 1254  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1254

Ser Thr Ala Pro Leu Pro Trp Pro Trp Ser Pro Ala Ala Leu Arg Leu  
 1 5 10 15

Leu Gln Arg Pro Pro Glu Glu Pro Ala Val His Ala Asp Cys His Arg  
 20 25 30

<210> 1255  
 <211> 33  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1255  
 Tyr Ser Thr Ala Pro Leu Pro Trp Pro Trp Ser Pro Ala Ala Leu Arg  
 1 5 10 15  
 Leu Leu Gln Arg Pro Pro Glu Glu Pro Ala Val His Ala Asp Cys His  
 20 25 30

Arg

<210> 1256  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1256  
 Val Gln Gly Glu Thr Ser Asn Asp Lys Ile Pro Val Ala Leu Gly Leu  
 1 5 10 15

Lys

<210> 1257

<211> 72  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1257  
Ala Pro Val Ala Asn Glu Leu Arg Cys Gln Cys Leu Gln Thr Val Ala  
1 5 10 15  
Gly Ile His Phe Lys Asn Ile Gln Ser Leu Lys Val Met Pro Pro Gly  
20 25 30  
Pro His Cys Thr Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Arg  
35 40 45  
Glu Ala Cys Leu Asp Pro Glu Ala Pro Met Val Gln Lys Ile Val Gln  
50 55 60  
Lys Met Leu Lys Gly Val Pro Lys  
65 70

<210> 1258  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1258  
Val Gln Gly Glu Glu Ser Asn Asp Lys  
1 5

<210> 1259  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1259

Ile Leu Asn Gly Ile Asn Asn Tyr Lys Asn Pro Lys Leu  
1 5 10

<210> 1260

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1260

Phe Val Gln Gly Glu Ala Ile Pro Met Ser Ile Pro Pro Glu Asp Lys  
1 5 10 15

Ile Pro Val Ala Leu Gly  
20

<210> 1261

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1261

Ala Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala  
1 5 10

<210> 1262

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1262

Met Val Lys Gln Ile Glu Ser Lys Thr Ala Phe Gln Glu Ala Leu Asp  
1 5 10 15

Ala Ala Gly Asp Lys  
20

<210> 1263  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1263  
Ala Tyr Val His Asp Ala Pro Val Arg Ser  
1 5 10

<210> 1264  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1264  
Pro Arg Lys Leu Tyr Asp Lys  
1 5

<210> 1265  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1265  
Tyr Thr Thr Asn Pro Arg Lys Leu Tyr Asp Tyr Lys  
1 5 10

<210> 1266

<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1266

Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Ala Tyr Thr Thr Asn  
1 5 10 15

Pro Arg Lys Leu Tyr Asp Tyr Lys  
20

<210> 1267

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1267

Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Lys  
1 5 10

<210> 1268

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1268

Pro Arg Lys Leu Tyr Asp Tyr Lys  
1 5

<210> 1269

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1269

Tyr Thr Thr Asn Pro Arg Lys Leu Tyr Asp Tyr Lys  
1 5 10

<210> 1270

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1270

Tyr Thr Thr Asn Pro Arg Lys Leu Tyr Asp Tyr  
1 5 10

<210> 1271

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1271

Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Ala Tyr Thr Thr Asn  
1 5 10 15

Pro Arg Lys Leu Tyr Asp Tyr Lys  
20

<210> 1272

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 1272

Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Ala Tyr Thr Thr Asn  
1 5 10 15

Pro Arg Lys Leu Tyr Asp Tyr  
20

<210> 1273

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1273

Arg Lys Leu Tyr Asp Tyr Lys  
1 5

<210> 1274

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1274

Arg Lys Leu Tyr Asp Tyr  
1 5

<210> 1275

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1275



Pro Arg Lys Leu Tyr Asp Lys  
1 5

<210> 1276

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1276

Pro Arg Lys Leu Tyr Asp  
1 5

<210> 1277

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1277

Pro Arg Lys Leu Tyr Asp Tyr Lys  
1 5

<210> 1278

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1278

Asp Gly Glu Ala  
1

<210> 1279

<211> 6

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1279

Leu Gly Thr Ile Pro Gly  
1 5

<210> 1280

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1280

Asn Ile Ser Ser Glu Glu Lys Ala Ser Trp Thr Arg Pro Glu Lys Gln  
1 5 10 15

Glu Thr Leu Asp Gly His Met  
20

<210> 1281

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1281

Phe Asn Leu Asp Val Arg Phe Leu Val Val Lys Glu Ala Val Asn Pro  
1 5 10 15

Gly

<210> 1282

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1282

Ala Pro Arg Gln Arg Gln Thr Leu Val Leu Phe Pro Gly Asp Leu Arg  
1 5 10 15

Thr

<210> 1283

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1283

Cys Ser Cys Ser Pro Val His Pro Gln Gln Ala Phe Cys Asn Ala Asp  
1 5 10 15

Val Val Ile Arg Ala Lys Ala Val  
20

<210> 1284

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1284

Cys Ser Cys Ser Pro Val His Pro Gln Gln Ala Phe Cys Asn Ala Asp  
1 5 10 15

Val Val Ile Arg Ala Lys Ala Val  
20

<210> 1285  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1285  
Asn Val Ile Gln Ile Ser Asn Asp Leu Glu Asn Leu Arg  
1 5 10

<210> 1286  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1286  
Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr  
1 5 10 15

Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val Ser Ser  
20 25 30

Lys Gln Lys  
35

<210> 1287  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1287  
Tyr Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr Ile Val  
1 5 10 15

<210> 1288  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1288  
Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro Glu Ser  
1 5 10 15

<210> 1289  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1289  
Glu Asp Val Asp His Val Phe Leu Arg Phe  
1 5 10

<210> 1290  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1290  
Thr Ser Phe Thr Pro Arg Leu  
1 5

<210> 1291  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1291

Asp Pro Ala Phe Asn Ser Trp Gly  
1 5

<210> 1292

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1292

Asp Pro Gly Phe Ser Ser Trp Gly  
1 5

<210> 1293

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1293

Asp Gln Gly Phe Asn Ser Trp Gly  
1 5

<210> 1294

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1294

Asp Ala Ser Phe His Ser Trp Gly

1

5

<210> 1295

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1295

Gly Ser Gly Phe Ser Ser Trp Gly

1

5

<210> 1296

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1296

Asp Pro Ala Phe Ser Ser Trp Gly

1

5

<210> 1297

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1297

Gly Ala Ser Phe Tyr Ser Trp Gly

1

5

<210> 1298

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1298

Ile Ile Gly Gly Arg Glu Ser Arg Pro His  
1 5 10

<210> 1299

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1299

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys  
20 25 30

Gln Arg Val Lys Asn Lys  
35

<210> 1300

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1300

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Arg Gln  
1 5 10 15

Leu Ala Val Arg Arg Tyr Leu Ala Ala Val Leu Gly Lys Arg  
20 25 30



<210> 1301  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1301  
Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Met Ala Val Lys Lys Tyr  
1 5 10 15  
Leu Ala Ala Val Leu  
20

<210> 1302  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1302  
His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15  
Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys  
20 25 30  
Gln Arg Ile Lys Asn Lys  
35

<210> 1303  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1303  
His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
20 25

<210> 1304

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1304

Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln Met Ala Val Lys Lys  
1 5 10 15

Tyr Leu Ala Ala Val Leu  
20

<210> 1305

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1305

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys  
20 25 30

Gln Arg Val Lys Asn Lys  
35

<210> 1306

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1306

Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln Met Ala Val Lys Lys  
1 5 10 15

Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys Gln Arg Val Lys Asn  
20 25 30

Lys

<210> 1307

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1307

Gln Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr  
1 5 10 15

Lys Gln Arg Val Lys Asn Lys  
20

<210> 1308

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1308

Gly Lys Arg Tyr Lys Gln Arg Val Lys Asn Lys  
1 5 10

<210> 1309

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1309

Tyr Lys Gln Arg Val Lys Asn Lys  
1 5

<210> 1310

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1310

Asp Val Ala His Gly Ile Leu Asn Glu Ala Tyr Arg Lys Val Leu Asp  
1 5 10 15

Gln Leu Ser Ala Gly Lys His Leu Gln Ser Leu Val Ala  
20 25

<210> 1311

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1311

Asp Val Ala His Glu Ile Leu Asn Glu Ala Tyr Arg Lys Val Leu Asp  
1 5 10 15

Gln Leu Ser Ala Arg Lys Tyr Leu Gln Ser Met Val Ala  
20 25

<210> 1312

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1312

Ser Asp Glu Asp Ser Asp Gly Asp Arg Pro Gln Ala Ser Pro Gly Leu  
1 5 10 15

Gly Pro Gly Pro  
20

<210> 1313

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1313

Gly Glu Ser Arg Ser Glu Ala Leu Ala Val Asp Gly Ala Gly Lys Pro  
1 5 10 15

Gly Ala Glu Glu Ala Gln Asp Pro Glu Gly Lys Gly Glu Gln Glu His  
20 25 30

Ser Gln Gln Lys Glu Glu Glu Glu Glu Met Ala Val Val Pro Gln Gly  
35 40 45

Leu Phe Arg Gly  
50

<210> 1314

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1314

Pro Glu Gly Lys Gly Glu Gln Glu His Ser Gln Gln Lys Glu Glu Glu  
1 5 10 15

Glu Glu Met Ala Val Val Pro Gln Gly Leu Phe Arg Gly  
20 25

<210> 1315

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1315

Glu Glu Glu Glu Glu Met Ala Val Val Pro Gln Gly Leu Phe Arg Gly  
1 5 10 15

<210> 1316

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1316

Gly Trp Pro Gln Ala Pro Ala Met Asp Gly Ala Gly Lys Thr Gly Ala  
1 5 10 15

Glu Glu Ala Gln Pro Pro Glu Gly Lys Gly Ala Arg Glu His Ser Arg  
20 25 30

Gln Glu Glu Glu Glu Glu Thr Ala Gly Ala Pro Gln Gly Leu Phe Arg  
35 40 45

Gly

<210> 1317

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1317

Gly Trp Pro Gln Ala Pro Ala Asp Gly Ala Gly Lys Thr Gly Ala Glu  
1 5 10 15

Glu Ala Gln Pro Pro Glu Gly Lys Gly Ala Arg Glu His Ser Arg Gln  
20 25 30

Glu Glu Glu Glu Glu Thr Ala Gly Ala Pro Gln Gly Leu Phe Arg Gly  
35 40 45

<210> 1318

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1318

Tyr Gly Trp Pro Gln Ala Pro Ala Asp Gly Ala Gly Lys Thr Gly Ala  
1 5 10 15

Glu Glu Ala Gln Pro Pro Glu Gly Lys Gly Ala Arg Glu His Ser Arg  
20 25 30

Gln Glu Glu Glu Glu Glu Thr Ala Gly Ala Pro Gln Gly Leu Phe Arg  
35 40 45

Gly

<210> 1319

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1319

Tyr Gly Trp Pro Gln Ala Pro Ala Met Asp Gly Ala Gly Lys Thr Gly  
1 5 10 15

Ala Glu Glu Ala Gln Pro Pro Glu Gly Lys Gly Ala Arg Glu His Ser  
20 25 30

Arg Gln Glu Glu Glu Glu Thr Ala Gly Ala Pro Gln Gly Leu Phe  
35 40 45

Arg Gly  
50

<210> 1320

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1320

Leu Ser Phe Arg Ala Pro Ala Tyr Gly Phe Arg Gly Pro Gly Leu Gln  
1 5 10 15

Leu Arg Arg

<210> 1321

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1321

Asp Asp Gly Gln Ser Glu Ser Gln Ala Val Asn Gly Lys Thr Gly Ala  
1 5 10 15

Ser Glu Ala Val Pro Ser Glu Gly Lys Gly Glu Leu Glu His Ser Gln



20

25

30

Gln Glu Glu Asp Gly Glu Glu Ala Met Ala Gly Pro Pro Gln Gly Leu  
 35 40 45

Phe Pro Gly  
 50

&lt;210&gt; 1322

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 1322

Tyr Asp Asp Gly Gln Ser Glu Ser Gln Ala Val Asn Gly Lys Thr Gly  
 1 5 10 15

Ala Ser Glu Ala Val Pro Ser Glu Gly Lys Gly Glu Leu Glu His Ser  
 20 25 30

Gln Gln Glu Glu Asp Gly Glu Glu Ala Met Ala Gly Pro Pro Gln Gly  
 35 40 45

Leu Phe Pro Gly  
 50

&lt;210&gt; 1323

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 1323

Gly Glu Leu Glu His Ser Gln Gln Glu Glu Asp Gly Glu Glu Ala Met  
 1 5 10 15

Ala Gly Pro Pro Gln Gly Leu Phe Pro Gly  
 20 25

<210> 1324  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1324  
Gln Glu Glu Glu Glu Glu Thr Ala Gly Ala Pro Gln Gly Leu Phe Arg  
1 5 10 15

Gly

<210> 1325  
<211> 2  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1325  
Pro Gly  
1

<210> 1326  
<211> 1  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1326  
Lys  
1

<210> 1327  
<211> 4

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1327

Gly Phe Ala Asp  
1

<210> 1328

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1328

Asp Tyr Val Pro Met Leu  
1 5

<210> 1329

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1329

Asp Tyr Val Pro Met Leu  
1 5

<210> 1330

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1330

Gln Lys Arg Pro Ser Gln Arg Ser Lys Tyr Leu  
1 5 10

<210> 1331

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1331

Pro Leu Ser Arg Thr Leu Ser Val Ala Ala Lys Lys  
1 5 10

<210> 1332

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1332

Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly Tyr  
1 5 10

<210> 1333

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1333

Arg Gly Tyr Ser Leu Gly  
1 5

<210> 1334  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1334  
Lys Lys Ala Leu Arg Arg Gln Glu Ala Val Asp Ala Leu  
1 5 10

<210> 1335  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1335  
Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn Glu Arg  
1 5 10 15  
Met Pro Pro Arg Arg Asp Ala Met Pro  
20 25

<210> 1336  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1336  
Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr  
1 5 10 15  
Thr Met Leu Ala  
20

<210> 1337  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1337  
Pro Leu Ser Arg Thr Leu Ser Val Ser Ser  
1 5 10

<210> 1338  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1338  
Pro Leu Arg Arg Thr Leu Ser Val Ala Ala  
1 5 10

<210> 1339  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1339  
Leu Gln Asn Arg Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly  
1 5 10 15

Leu

<210> 1340  
<211> 8  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1340

Cys Leu Arg Arg Ala Ser Leu Gly  
1 5

<210> 1341

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1341

Phe Lys Lys Ser Phe Lys Leu  
1 5

<210> 1342

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1342

Lys Lys Ala Leu His Arg Gln Glu Thr Val Asp Ala Leu  
1 5 10

<210> 1343

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1343

Lys Arg Thr Leu Arg Arg

1 5

<210> 1344

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1344

Arg Thr Lys Arg Ser Gly Ser Val Tyr Glu Pro Leu Lys Ile

1 5 10

<210> 1345

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1345

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu

1 5 10 15

Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln

20 25

<210> 1346

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1346

Arg Arg Lys Ala Ser Gly Pro Pro Val

1 5



<210> 1347  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1347  
Arg Phe Ala Arg Lys Gly Ala Leu Arg Gln Lys Asn Val His Glu Val  
1 5 10 15

Lys

<210> 1348  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1348  
Arg Phe Ala Arg Lys Gly Ala Leu Glu Gln Lys Asn Val His Glu Val  
1 5 10 15

Lys Asn

<210> 1349  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1349  
Ser Phe Val Asn Ser Glu Phe Leu Lys Pro Glu Val Lys Ser  
1 5 10

<210> 1350  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1350  
Ser Tyr Thr Asn Pro Glu Phe Val Ile Asn Val  
1 5 10

<210> 1351  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1351  
Ala Gly Asn Lys Val Ile Ser Pro Ser Glu Asp Arg Arg Gln Cys  
1 5 10 15

<210> 1352  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1352  
Gly Pro Lys Thr Pro Glu Glu Lys Thr Ala Asn Thr Ile Ser Lys Phe  
1 5 10 15

Asp Cys

<210> 1353

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1353

Leu Leu Tyr Glu Met Leu Ala Gly Gln Ala Pro Phe Glu Gly Glu Asp  
1 5 10 15

Glu Asp Glu Leu Phe Gln Ser Ile Met Glu His Asn Val  
20 25

<210> 1354

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1354

Asn Tyr Pro Leu Glu Leu Tyr Glu Arg Val Arg Thr Gly Cys  
1 5 10

<210> 1355

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1355

Val Arg Lys Arg Thr Leu Arg Arg Leu  
1 5

<210> 1356

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1356

Cys Asp Asn Gln Ile Lys Lys Met  
1 5

<210> 1357

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1357

Ile Tyr Gly Glu Phe  
1 5

<210> 1358

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1358

Ile Tyr Gly Glu Phe  
1 5

<210> 1359

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1359

Thr Tyr Ala Asp Phe Ile Ala Ser Gly Arg Thr Gly Arg Arg Asn Ala  
1 5 10 15

Ile

<210> 1360

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1360

Gln Lys Arg Pro Ser Gln Arg Ser Lys Tyr Leu  
1 5 10

<210> 1361

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1361

Arg Arg Glu Glu Glu Thr Glu Glu Glu  
1 5

<210> 1362

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1362

Arg Arg Lys Ala Ser Gly Pro  
1 5

<210> 1363  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1363  
Arg Arg Leu Ile Glu Asp Asn Glu Tyr Thr Ala Arg Gly  
1 5 10

<210> 1364  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1364  
Pro Leu Ala Arg Thr Leu Ser Val Ala Gly Leu Pro Gly Lys Lys  
1 5 10 15

<210> 1365  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1365  
Lys Glu Ala Lys Glu Lys Arg Gln Glu Gln Ile Ala Lys Arg Arg Arg  
1 5 10 15  
Leu Ser Ser Leu Arg Ala Ser Thr Ser Lys Ser Gly Gly Ser Gln Lys  
20 25 30

<210> 1366  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1366  
Tyr Ser Phe Val His His Gly Phe Phe Asn Phe Arg Val Ser Trp Arg  
1 5 10 15

Glu Met Leu Ala  
20

<210> 1367  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1367  
Val Ala Pro Ser Asp Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys  
1 5 10 15

Ile Thr Arg Arg Glu  
20

<210> 1368  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1368  
His Arg His Phe Leu Arg  
1 5

<210> 1369  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1369  
Arg Cys Leu Gly Thr Val Gln Gly Gln Phe Pro Leu Cys Tyr His Phe  
1 5 10 15

Leu Ser Ala Pro Gly Arg Phe Gln Glu  
20 25

<210> 1370  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1370  
Met Tyr Ser Asn Val Ile Gly Thr Val Thr Ser Gly Lys Arg  
1 5 10

<210> 1371  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1371  
Phe Tyr Lys Ala Asp Gly Val Val Phe Ser Ile Tyr Asp Val Pro Gly  
1 5 10 15

Arg Gln Val Pro Leu Ser Ala Arg Gly  
20 25



<210> 1372  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1372  
Trp Ser Pro Gln Glu Glu Asp Arg Ile Ile Glu Gly Gly Ile Tyr Asp  
1 5 10 15

Ala Asp Leu Asn  
20

<210> 1373  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1373  
Val Ser Ser Ala Glu Gly Trp His Gly Asn Val Thr Leu Asn Ile Arg  
1 5 10 15

Pro Ser Thr Gly  
20

<210> 1374  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1374  
Cys Ser Pro Cys His Ala Met Lys Met Asn Ile  
1 5 10

<210> 1375  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1375  
Glu Val Ser Phe Leu Asn Cys Ser Leu Asp Asn Gly Gly Cys Thr Pro  
1 5 10 15  
Leu Leu Pro Arg Gly Gly Gly Leu Ala Ala Leu  
20 25

<210> 1376  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1376  
Met Ala Pro Glu Glu Ile Ile Met Asp Arg Pro Phe Leu Phe Val Val  
1 5 10 15  
Arg His Asn Pro Thr Gly Thr Val Leu Phe Met Gly Gln Val Met Glu  
20 25 30

Pro

<210> 1377  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1377

Cys Glu Asn Gly Gly Phe Cys Ser Gly Val Cys His Asn Leu Pro Gly  
 1 5 10 15

Thr Phe Glu Cys Ile Cys Gly Pro Asp Ser Ala Leu Val Arg His Ile  
 20 25 30

Gly Thr Asp Cys  
 35

<210> 1378

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1378

His Pro Pro Cys Cys Leu Tyr Gly Lys Cys Arg Arg Tyr Pro Gly Cys  
 1 5 10 15

Ser Ser Ala Ser Cys Cys Gln Leu  
 20

<210> 1379

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1379

Glu Asp Asn Cys Ile Ala Glu Asp Tyr Gly Lys Cys Thr Trp Gly Gly  
 1 5 10 15

Thr Lys Cys Cys Arg Gly Arg Pro Cys Arg Cys Ser Met Ile Gly Thr  
 20 25 30

Asn Cys Glu Cys Thr Pro Arg Leu Ile Met Glu Gly Leu Ser Phe Ala  
 35 40 45

<210> 1380  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1380  
Gly Gly Cys Leu Pro His Asn Arg Phe Cys Asn Ala Leu Ser Gly Pro  
1 5 10 15

Arg Cys Cys Ser Gly Leu Lys Cys Lys Glu Leu Ser Ile Trp Asp Ser  
20 25 30

Arg Cys Leu  
35

<210> 1381  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1381  
Cys Asn Cys Lys Ala Pro Glu Thr Ala Leu Cys Ala Arg Arg Cys Gln  
1 5 10 15

Gln His

<210> 1382  
<211> 60  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1382

Trp Gln Pro Pro Trp Tyr Cys Lys Glu Pro Val Arg Ile Gly Ser Cys  
1 5 10 15

Lys Lys Gln Phe Ser Ser Phe Tyr Phe Lys Trp Thr Ala Lys Lys Cys  
20 25 30

Leu Pro Phe Leu Phe Ser Gly Cys Gly Gly Asn Ala Asn Arg Phe Gln  
35 40 45

Thr Ile Gly Glu Cys Arg Lys Lys Cys Leu Gly Lys  
50 55 60

<210> 1383

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1383

Arg Ile Cys Tyr Ile His Lys Ala Ser Leu Pro Arg Ala Thr Lys Thr  
1 5 10 15

Cys Val Glu Asn Thr Cys Tyr Lys Met Phe Ile Arg Thr Gln Arg Glu  
20 25 30

Tyr Ile Ser Glu Arg Gly Cys Gly Cys Pro Thr Ala Met Trp Pro Tyr  
35 40 45

Gln Thr Glu Cys Cys Lys Gly Asp Arg Cys Asn Lys  
50 55 60

<210> 1384

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1384

Phe Thr Asn Val Ser Cys Thr Thr Ser Lys Glu Cys Trp Ser Val Cys

1

5

10

15

Gln Arg Leu His Asn Thr Ser Arg Gly Lys Cys Met Asn Lys Lys Cys  
 20 25 30

Arg Cys Tyr Ser  
 35

&lt;210&gt; 1385

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 1385

Met Cys Met Pro Cys Phe Thr Thr Asp His Gln Met Ala Arg Lys Cys  
 1 5 10 15

Asp Asp Cys Cys Gly Gly Lys Gly Arg Gly Lys Cys Tyr Gly Pro Gln  
 20 25 30

Cys Leu Cys Arg  
 35

&lt;210&gt; 1386

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Peptide

&lt;400&gt; 1386

Glu Cys Cys Asn Pro Ala Cys Gly Arg His Tyr Ser Cys  
 1 5 10

&lt;210&gt; 1387

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1387

Ala Cys Ser Gly Arg Gly Ser Arg Cys Gln Cys Cys Met Gly Leu Arg  
1 5 10 15

Cys Gly Arg Gly Asn Pro Gln Lys Cys Ile Gly Ala His Asp Val  
20 25 30

<210> 1388

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1388

Gly Arg Cys Cys His Pro Ala Cys Gly Lys Asn Tyr Ser Cys  
1 5 10

<210> 1389

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1389

Arg Asp Cys Cys Tyr His Pro Thr Cys Asn Met Ser Asn Pro Gln Ile  
1 5 10 15

Cys

<210> 1390

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1390

Tyr Cys Cys His Pro Ala Cys Gly Lys Asn Phe Asp Cys  
1 5 10

<210> 1391

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1391

Gly Cys Cys Ser Asp Pro Arg Cys Ala Trp Arg Cys  
1 5 10

<210> 1392

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1392

Ile Cys Cys Asn Pro Ala Cys Gly Pro Lys Tyr Ser Cys  
1 5 10

<210> 1393

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1393

Arg Asp Cys Cys Thr Arg Lys Cys Lys Asp Arg Arg Cys Lys Met Lys



1

5

10

15

Cys Cys Ala

<210> 1394

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1394

Cys Lys Ser Gly Ser Ser Cys Ser Thr Ser Tyr Asn Cys Cys Arg Ser  
1 5 10 15

Cys Asn Tyr Thr Lys Arg Cys Tyr  
20

<210> 1395

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1395

Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys  
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys  
20 25

<210> 1396

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1396

Cys Lys Gly Lys Gly Ala Pro Cys Arg Lys Thr Met Tyr Asp Cys Cys  
1 5 10 15

Ser Gly Ser Cys Gly Arg Arg Gly Lys Cys  
20 25

<210> 1397

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1397

Cys Lys Leu Lys Gly Gln Ser Cys Arg Lys Thr Ser Tyr Asp Cys Cys  
1 5 10 15

Ser Gly Ser Cys Gly Arg Ser Gly Lys Cys  
20 25

<210> 1398

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1398

Lys Thr Lys Cys Lys Phe Leu Lys Lys Cys  
1 5 10

<210> 1399

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1399

Arg Asp Cys Cys Thr Lys Lys Cys Lys Asp Arg Gln Cys Lys Gln Arg  
1 5 10 15

Cys Cys Ala

<210> 1400

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1400

Glu Phe Thr Asp Val Asp Cys Ser Val Ser Lys Glu Cys Trp Ser Val  
1 5 10 15

Cys Lys Asp Leu Phe Gly Val Asp Arg Gly Lys Cys Met Gly Lys Lys  
20 25 30

Cys Arg Cys Tyr Gln  
35

<210> 1401

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1401

Gly Val Glu Ile Asn Val Lys Cys Ser Gly Ser Pro Gln Cys Leu Lys  
1 5 10 15

Pro Cys Lys Asp Ala Gly Met Arg Phe Gly Lys Cys Met Asn Arg Lys  
20 25 30

Cys His Cys Thr Pro  
35

<210> 1402  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1402  
Gly Val Glu Ile Asn Val Lys Cys Ser Gly Ser Pro Gln Cys Leu Lys  
1 5 10 15  
Pro Cys Lys Asp Ala Gly Met Arg Phe Gly Lys Cys Met Asn Arg Lys  
20 25 30  
Cys His Cys Thr Pro  
35

<210> 1403  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1403  
Ile Lys Cys Asn Cys Lys Arg His Val Ile Lys Pro His Ile Cys Arg  
1 5 10 15  
Lys Ile Cys Gly Lys Asn  
20

<210> 1404  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1404

Thr Ile Ile Asn Val Lys Cys Thr Ser Pro Lys Gln Cys Leu Pro Pro  
 1 5 10 15  
 Cys Lys Ala Gln Phe Gly Gln Ser Ala Gly Ala Lys Cys Met Asn Gly  
 20 25 30  
 Lys Cys Lys Cys Tyr Pro His  
 35

<210> 1405  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1405  
 Phe Asp Arg Ala  
 1

<210> 1406  
 <211> 44  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 1406  
 Ala Asp Cys Ser Ala Thr Gly Asp Thr Cys Asp His Thr Lys Lys Cys  
 1 5 10 15

Cys Asp Asp Cys Tyr Thr Cys Arg Cys Gly Thr Pro Trp Gly Ala Asn  
 20 25 30

Cys Arg Cys Asp Tyr Tyr Lys Ala Arg Cys Asp Thr  
 35 40

<210> 1407  
 <211> 31  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1407

Ala Phe Cys Asn Leu Arg Met Cys Gln Leu Ser Cys Arg Ser Leu Gly  
1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys His  
20 25 30

<210> 1408

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1408

Arg Ser Cys Ile Asp Thr Ile Pro Lys Ser Arg Cys Thr Ala Phe Gln  
1 5 10 15

Cys Lys His Ser Met Lys Tyr Arg Leu Ser Phe Cys Arg Lys Thr Cys  
20 25 30

Gly Thr Cys  
35

<210> 1409

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1409

Phe Leu Pro Leu Ile Leu Gly Lys Leu Val Lys Gly Leu Leu  
1 5 10

<210> 1410

<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1410  
Ile Asn Leu Lys Ala Ile Ala Ala Leu Val Lys Lys Val Leu  
1 5 10

<210> 1411  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1411  
Ile Asn Leu Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu  
1 5 10

<210> 1412  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1412  
Ile Asn Leu Lys Ala Leu Ala Ala Leu Ala Lys Ala Leu Leu  
1 5 10

<210> 1413  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 1413

Ile Asn Leu Lys Ala Leu Ala Ala Leu Ala Lys Arg Leu Leu  
1 5 10

<210> 1414

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1414

Ile Asn Leu Lys Ala Lys Ala Ala Leu Ala Lys Lys Leu Leu  
1 5 10

<210> 1415

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1415

Ile Asn Trp Lys Gly Ile Ala Ala Met Ala Lys Lys Leu Leu  
1 5 10

<210> 1416

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1416

Phe Met Ser Ser His Gln Ser Gln Ala Ser Leu Glu Leu Ala Ile Lys  
1 5 10 15



Gln Trp Gly Ser Gln  
20

<210> 1417  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1417  
Phe Asn Lys Ile Thr Pro Asn Leu Ala Glu Phe Ala Phe Ser Leu Tyr  
1 5 10 15

Arg Gln Leu Ala  
20

<210> 1418  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1418  
Trp Ser Pro Lys Glu Glu Asp Arg Ile Ile Pro Gly Gly Ile Tyr Asn  
1 5 10 15

Ala Asp Leu Asn Asp Glu Trp Val Gln Arg Ala Leu His Phe Ala Ile  
20 25 30

Ser Glu

<210> 1419  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 1419

Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln  
1 5 10 15

Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu  
20 25 30

Trp Asn Trp Phe  
35

<210> 1420

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1420

Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu  
1 5 10 15

Thr Val Trp Gln Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu  
20 25 30

Arg Tyr Leu Lys Asp Gln  
35

<210> 1421

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1421

Tyr Thr Asn Thr Ile Tyr Thr Leu Leu Glu Glu Ser Gln Asn Gln Gln  
1 5 10 15

Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu  
20 25 30

Trp Asn Trp Phe  
35

<210> 1422  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1422  
Tyr Thr Gly Ile Ile Tyr Asn Leu Leu Glu Glu Ser Gln Asn Gln Gln  
1 5 10 15  
Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Asn Leu  
20 25 30  
Trp Asn Trp Phe  
35

<210> 1423  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1423  
Tyr Thr Ser Leu Ile Tyr Ser Leu Leu Glu Lys Ser Gln Thr Gln Gln  
1 5 10 15  
Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu  
20 25 30  
Trp Asn Trp Phe  
35

<210> 1424  
<211> 36  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1424

Leu Glu Ala Asn Ile Ser Lys Ser Leu Glu Gln Ala Gln Ile Gln Gln  
1 5 10 15

Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn Ser Trp Asp Ile Phe  
20 25 30

Gly Asn Trp Phe  
35

<210> 1425

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1425

Leu Glu Ala Asn Ile Ser Gln Ser Leu Glu Gln Ala Gln Ile Gln Gln  
1 5 10 15

Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn Ser Trp Asp Val Phe  
20 25 30

Thr Asn Trp Leu  
35

<210> 1426

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1426

Cys Gly Gly Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu

1                      5                      10                      15  
 Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu  
                     20                      25                      30

Ala Val Glu Arg Tyr Leu Lys Asp Gln  
                     35                      40

<210> 1427  
 <211> 38  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Peptide

<400> 1427  
 Gln Gln Leu Leu Asp Val Val Lys Arg Gln Gln Glu Met Leu Arg Leu  
   1                      5                      10                      15  
 Thr Val Trp Gly Thr Lys Asn Leu Gln Ala Arg Val Thr Ala Ile Glu  
                     20                      25                      30  
 Lys Tyr Leu Lys Asp Gln  
                     35

<210> 1428  
 <211> 46  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                     Peptide

<400> 1428  
 Tyr Thr Ser Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys  
   1                      5                      10                      15  
 Cys Asn Gly Ala Lys Val Lys Leu Ile Lys Gln Glu Leu Asp Lys Tyr  
                     20                      25                      30  
 Lys Asn Ala Val Thr Glu Leu Gln Leu Leu Met Gln Ser Thr  
                     35                      40                      45

<210> 1429  
<211> 54  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1429  
Ala Ser Gly Val Ala Val Ser Lys Val Leu His Leu Glu Gly Glu Val  
1 5 10 15  
Asn Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser  
20 25 30  
Asn Gly Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys Asn Tyr  
35 40 45  
Ile Asp Lys Gln Leu Leu  
50

<210> 1430  
<211> 53  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1430  
Gly Glu Pro Ile Ile Asn Phe Tyr Asp Pro Leu Val Phe Pro Ser Asp  
1 5 10 15  
Glu Phe Asp Ala Ser Ile Ser Gln Val Asn Glu Lys Ile Asn Gln Ser  
20 25 30  
Leu Ala Phe Ile Arg Lys Ser Asp Glu Leu Leu His Asn Val Asn Ala  
35 40 45  
Gly Lys Ser Thr Thr  
50

<210> 1431

<211> 48  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1431  
Tyr Thr Ser Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys  
1 5 10 15  
Cys Asn Gly Thr Asp Ala Lys Val Lys Leu Ile Lys Gln Glu Leu Asp  
20 25 30  
Lys Tyr Lys Asn Ala Val Thr Glu Leu Gln Leu Leu Met Gln Ser Thr  
35 40 45

<210> 1432  
<211> 34  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1432  
Tyr Thr Ser Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys  
1 5 10 15  
Cys Asn Gly Asp Ala Lys Val Lys Leu Ile Lys Gln Glu Leu Asp Lys  
20 25 30  
  
Tyr Lys

<210> 1433  
<211> 34  
<212> PRT  
<213> Artificial Sequence  
  
<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1433

Thr Ser Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys Cys  
1 5 10 15  
Asn Gly Asp Ala Lys Val Lys Leu Ile Lys Gln Glu Leu Asp Lys Tyr  
20 25 30

Lys Asn

<210> 1434

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1434

Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys Cys Asn Gly  
1 5 10 15  
Asp Ala Lys Val Lys Leu Ile Lys Gln Glu Leu Asp Lys Tyr Lys Asn  
20 25 30

Ala Val

<210> 1435

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1435

Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys Met Asn Gly  
1 5 10 15  
Asp Ala Lys Val Lys Leu Ile Lys Gln Glu Leu Asp Lys Tyr Lys Asn



20

25

30

Ala Val

&lt;210&gt; 1436

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1436

Val Ala Val Ser Lys Val Leu His Leu Glu Gly Glu Val Asn Lys Ile  
1 5 10 15Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val  
20 25 30

Ser

&lt;210&gt; 1437

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1437

Ala Val Ser Lys Val Leu His Leu Glu Gly Glu Val Asn Lys Ile Ala  
1 5 10 15Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val Ser  
20 25 30

Val

&lt;210&gt; 1438

&lt;211&gt; 33

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1438  
Val Ser Lys Val Leu His Leu Glu Gly Glu Val Asn Lys Ile Ala Leu  
1 5 10 15  
Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val Ser Val  
20 25 30

Leu

<210> 1439  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1439  
Ser Lys Val Leu His Leu Glu Gly Glu Val Asn Lys Ile Ala Leu Leu  
1 5 10 15  
Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val Ser Val Leu  
20 25 30

Thr

<210> 1440  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1440

Lys Val Leu His Leu Glu Gly Glu Val Asn Lys Ile Ala Leu Leu Ser  
1 5 10 15

Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val Ser Val Leu Thr  
20 25 30

Ser

<210> 1441

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1441

Leu Glu Gly Glu Val Asn Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala  
1 5 10 15

Val Val Ser Leu Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val Leu  
20 25 30

Asp

<210> 1442

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1442

Gly Glu Val Asn Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val  
1 5 10 15

Ser Leu Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu  
20 25 30

Lys

<210> 1443  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1443  
Glu Val Asn Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser  
1 5 10 15  
Leu Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys  
20 25 30

Asn

<210> 1444  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1444  
Val Asn Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu  
1 5 10 15  
Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys Asn  
20 25 30

Tyr

<210> 1445  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1445

Asn Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser  
1 5 10 15

Asn Gly Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys Asn Tyr  
20 25 30

Ile

<210> 1446

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1446

Lys Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn  
1 5 10 15

Gly Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys Asn Tyr Ile  
20 25 30

Asp

<210> 1447

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1447

Ile Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly  
1 5 10 15

Val Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys Asn Tyr Ile Asp

20

25

30

Lys

&lt;210&gt; 1448

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1448

Ala Leu Leu Ser Thr Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val  
1 5 10 15Ser Val Leu Thr Ser Lys Val Leu Asp Leu Lys Asn Tyr Ile Asp Lys  
20 25 30

Gln

&lt;210&gt; 1449

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1449

Gly Thr Ile Ala Leu Gly Val Ala Thr Ser Ala Gln Ile Thr Ala Ala  
1 5 10 15Val Ala Leu Val Glu Ala Lys Gln Ala Arg Ser Asp Ile Glu Lys Leu  
20 25 30Lys Glu Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln Ser  
35 40 45Ser Ile Gly Asn Leu Ile Val Ala Ile Lys Ser Val Gln Asp Tyr Val  
50 55 60

Asn Lys Glu Ile Val Pro  
65 70

<210> 1450  
<211> 56  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1450  
Tyr Thr Pro Asn Asp Ile Thr Leu Asn Asn Ser Val Ala Leu Asp Pro  
1 5 10 15  
Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu  
20 25 30  
Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly  
35 40 45  
Asn Trp His Gln Ser Ser Thr Thr  
50 55

<210> 1451  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1451  
Thr Leu Asn Asn Ser Val Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu  
1 5 10 15  
Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg  
20 25 30  
Arg Ser Asn  
35

<210> 1452

<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1452

Leu Asn Asn Ser Val Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu  
1 5 10 15

Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg  
20 25 30

Ser Asn Gln  
35

<210> 1453  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1453

Asn Asn Ser Val Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn  
1 5 10 15

Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser  
20 25 30

Asn Gln Lys  
35

<210> 1454  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide



<400> 1454

Asn Ser Val Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys  
1 5 10 15

Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn  
20 25 30

Gln Lys Leu  
35

<210> 1455

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1455

Ser Val Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala  
1 5 10 15

Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln  
20 25 30

Lys Leu Asp  
35

<210> 1456

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1456

Val Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys  
1 5 10 15

Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys  
20 25 30

Leu Asp Ser

<210> 1457  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1457

Ala Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser  
 1 5 10 15

Asp Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu  
 20 25 30

Asp Ser Ile  
 35

<210> 1458  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1458

Leu Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp  
 1 5 10 15

Leu Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp  
 20 25 30

Ser Ile Gly  
 35

<210> 1459  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1459

Asp Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu  
1 5 10 15

Glu Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser  
20 25 30

Ile Gly Asn  
35

<210> 1460

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1460

Pro Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu  
1 5 10 15

Glu Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile  
20 25 30

Gly Asn Trp  
35

<210> 1461

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1461

Ile Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu  
1 5 10 15

Ser Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly  
20 25 30

Asn Trp His  
35

<210> 1462

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1462

Asp Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser  
1 5 10 15

Lys Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly Asn  
20 25 30

Trp His Gln  
35

<210> 1463

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1463

Ile Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys  
1 5 10 15

Glu Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly Asn Trp  
20 25 30

His Gln Ser  
35

<210> 1464

<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1464  
Ser Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu  
1 5 10 15  
Trp Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly Asn Trp His  
20 25 30

Gln Ser Ser  
35

<210> 1465  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1465  
Ile Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp  
1 5 10 15  
Ile Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly Asn Trp His Gln  
20 25 30

Ser Ser Thr  
35

<210> 1466  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1466

Glu Leu Asn Lys Ala Lys Ser Asp Leu Glu Glu Ser Lys Glu Trp Ile  
1 5 10 15

Arg Arg Ser Asn Gln Lys Leu Asp Ser Ile Gly Asn Trp His Gln Ser  
20 25 30

Ser Thr Thr  
35

<210> 1467

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1467

Thr Ala Ala Val Ala Leu Val Glu Ala Lys Gln Ala Arg Ser Asp Ile  
1 5 10 15

Glu Lys Leu Lys Glu Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser  
20 25 30

Val Gln Ser  
35

<210> 1468

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1468

Ala Val Ala Leu Val Glu Ala Lys Gln Ala Arg Ser Asp Ile Glu Lys  
1 5 10 15

Leu Lys Glu Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln  
20 25 30

Ser Ser Ile

<210> 1469

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1469

Leu Val Glu Ala Lys Gln Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu  
1 5 10 15

Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile  
20 25 30

Gly Asn Leu  
35

<210> 1470

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1470

Val Glu Ala Lys Gln Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala  
1 5 10 15

Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile Gly  
20 25 30

Asn Leu Ile  
35

<210> 1471

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1471

Glu Ala Lys Gln Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile  
1 5 10 15

Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile Gly Asn  
20 25 30

Leu Ile Val  
35

<210> 1472

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1472

Ala Lys Gln Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile Arg  
1 5 10 15

Asp Thr Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile Gly Asn Leu  
20 25 30

Ile Val Ala  
35

<210> 1473

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1473

Lys Gln Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile Arg Asp  
1 5 10 15



Thr Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile Gly Asn Leu Ile  
20 25 30

Val Ala Ile  
35

<210> 1474

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1474

Gln Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile Arg Asp Thr  
1 5 10 15

Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile Gly Asn Leu Ile Val  
20 25 30

Ala Ile Lys  
35

<210> 1475

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1475

Ala Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile Arg Asp Thr Asn  
1 5 10 15

Lys Ala Val Gln Ser Val Gln Ser Ser Ile Gly Asn Leu Ile Val Ala  
20 25 30

Ile Lys Ser  
35

<210> 1476

<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1476

Arg Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile Arg Asp Thr Asn Lys  
1 5 10 15

Ala Val Gln Ser Val Gln Ser Ser Ile Gly Asn Leu Ile Val Ala Ile  
20 25 30

Lys Ser Val  
35

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<210> 1477  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1477

Ser Asp Ile Glu Lys Leu Lys Glu Ala Ile Arg Asp Thr Asn Lys Ala  
1 5 10 15

Val Gln Ser Val Gln Ser Ser Ile Gly Asn Leu Ile Val Ala Ile Lys  
20 25 30

Ser Val Gln  
35

<210> 1478  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1478

Lys Leu Lys Glu Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val  
1 5 10 15

Gln Ser Ser Ile Gly Asn Leu Ile Val Ala Ile Lys Ser Val Gln Asp  
20 25 30

Tyr Val Asn  
35

<210> 1479

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1479

Leu Lys Glu Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln  
1 5 10 15

Ser Ser Ile Gly Asn Leu Ile Val Ala Ile Lys Ser Val Gln Asp Tyr  
20 25 30

Val Asn Lys  
35

<210> 1480

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1480

Ala Ile Arg Asp Thr Asn Lys Ala Val Gln Ser Val Gln Ser Ser Ile  
1 5 10 15

Gly Asn Leu Ile Val Ala Ile Lys Ser Val Gln Asp Tyr Val Asn Lys  
20 25 30

Glu Ile Val

<210> 1481  
 <211> 47  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1481  
 Thr Trp Gln Glu Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile  
 1 5 10 15

Thr Ala Leu Leu Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr  
 20 25 30

Glu Leu Gln Lys Leu Asn Ser Trp Asp Val Phe Gly Asn Trp Phe  
 35 40 45

<210> 1482  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 1482  
 Trp Gln Glu Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr  
 1 5 10 15

Ala Leu Leu Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu  
 20 25 30

Leu Gln Lys  
 35

<210> 1483  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1483

Gln Glu Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr Ala  
1 5 10 15

Leu Leu Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu  
20 25 30

Gln Lys Leu  
35

<210> 1484

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1484

Glu Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu  
1 5 10 15

Leu Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln  
20 25 30

Lys Leu Asn  
35

<210> 1485

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1485

Trp Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu  
1 5 10 15

Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys  
20 25 30

Leu Asn Ser  
35

<210> 1486

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1486  
Glu Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu Glu  
1 5 10 15  
Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu  
20 25 30  
Asn Ser Trp  
35

<210> 1487

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1487

Arg Lys Val Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu Glu Glu  
1 5 10 15

Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn  
20 25 30

Ser Trp Asp  
35

<210> 1488

<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1488  
Lys Val Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu Glu Glu Ala  
1 5 10 15  
Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn Ser  
20 25 30

Trp Asp Val  
35

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<210> 1489  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1489  
Val Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu Glu Glu Ala Gln  
1 5 10 15  
Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn Ser Trp  
20 25 30

Asp Val Phe  
35

<210> 1490  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1490

Asp Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu Glu Glu Ala Gln Ile  
1 5 10 15

Gln Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn Ser Trp Asp  
20 25 30

Val Phe Gly  
35

<210> 1491

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1491

Phe Leu Glu Glu Asn Ile Thr Ala Leu Leu Glu Glu Ala Gln Ile Gln  
1 5 10 15

Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu Asn Ser Trp Asp Val  
20 25 30

Phe Gly Asn  
35

<210> 1492

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1492

Pro Asp Ala Val Tyr Leu His Arg Ile Asp Leu Gly Pro Pro Ile Ser  
1 5 10 15

Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly Asn Ala Ile Ala Lys  
20 25 30

Leu Glu Asp



<210> 1493

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1493

Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly Asn Ala Ile Ala Lys  
1 5 10 15

Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser Asp Gln Ile Leu Arg Ser  
20 25 30

Met Lys

<210> 1494

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1494

Leu His Arg Ile Asp Leu Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp  
1 5 10 15

Val Gly Thr Asn Leu Gly Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu  
20 25 30

Leu Leu

<210> 1495

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1495

His Arg Ile Asp Leu Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp Val  
1 5 10 15

Gly Thr Asn Leu Gly Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu  
20 25 30

Leu Glu

<210> 1496

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1496

Arg Ile Asp Leu Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp Val Gly  
1 5 10 15

Thr Asn Leu Gly Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu  
20 25 30

Glu Ser

<210> 1497

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1497

Ile Asp Leu Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp Val Gly Thr  
1 5 10 15

Asn Leu Gly Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu Glu  
20 25 30

Ser Ser

<210> 1498

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1498

Asp Leu Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp Val Gly Thr Asn  
1 5 10 15

Leu Gly Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu Glu Ser  
20 25 30

Ser Asp

<210> 1499

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1499

Leu Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp Val Gly Thr Asn Leu  
1 5 10 15

Gly Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser  
20 25 30

Asp Gln

<210> 1500

<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1500

Gly Pro Pro Ile Ser Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly  
1 5 10 15

Asn Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser Asp  
20 25 30

Gln Ile

1000  
900  
800  
700  
600  
500  
400  
300  
200  
100  
0

<210> 1501  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1501

Pro Pro Ile Ser Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly Asn  
1 5 10 15

Ala Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser Asp Gln  
20 25 30

Ile Leu

<210> 1502  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1502

Pro Ile Ser Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly Asn Ala  
1 5 10 15

Ile Ala Lys Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser Asp Gln Ile  
20 25 30

Leu Arg

<210> 1503

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1503

Ser Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly Asn Ala Ile Ala  
1 5 10 15

Lys Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser Asp Gln Ile Leu Arg  
20 25 30

Ser Met

<210> 1504

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1504

Leu Glu Arg Leu Asp Val Gly Thr Asn Leu Gly Asn Ala Ile Ala Lys  
1 5 10 15

Leu Glu Ala Lys Glu Leu Leu Glu Ser Ser Asp Gln Ile Leu Arg Ser  
20 25 30

Met Lys

<210> 1505  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1505  
Tyr Leu Cys Glu Phe Cys Leu Lys Tyr Gly Arg Ser Leu Lys Cys Leu  
1 5 10 15

Gln Arg His Leu Thr Lys  
20

<210> 1506  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1506  
Ala Ser Thr Thr Thr Asn Tyr Thr  
1 5

<210> 1507  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1507  
Ala Ser Thr Thr Thr Asn Tyr Thr  
1 5

<210> 1508  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1508  
Ser Gln Asn Tyr Pro Ile Val Gln  
1 5

<210> 1509  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1509  
Glu Leu Asp Lys Trp Ala  
1 5

<210> 1510  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1510  
Arg Gly Val Val Asn Ala Ser Ser Arg Leu Ala  
1 5 10

<210> 1511  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1511

Arg Gly Arg Arg Gln Pro Ile Pro Lys Ala  
1 5 10

<210> 1512

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1512

Leu Thr Thr Gly Ser Val Val Ile Val Gly Arg Ile Ile Leu Ser Gly  
1 5 10 15

Arg Pro Ala Val Val Pro Asp  
20

<210> 1513

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1513

Gly Ser Val Val Ile Val Gly Arg Ile Ile Leu Ser Gly Arg  
1 5 10

<210> 1514

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide



<400> 1514

Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro Ala Phe Gly Ala  
1 5 10 15

Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro  
20 25

<210> 1515

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1515

Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu Gln Asp Pro Arg  
1 5 10 15

Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly  
20 25

<210> 1516

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1516

Met Gln Trp Asn Ser Thr Ala Phe His Gln Thr  
1 5 10

<210> 1517

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1517

Tyr Gly Ala Val Val Asn Asp Leu

1

5

<210> 1518

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1518

Cys Thr His Gly Ile Arg Pro Val Val Ser Thr Gln Leu Leu Leu Asn

1

5

10

15

Gly Ser Leu Ala Glu

20

<210> 1519

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1519

Ser Glu Asn Tyr Pro Ile Val

1

5

<210> 1520

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1520

Lys Ala Arg Val Phe Glu Ala

1

5

<210> 1521  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1521  
Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys  
1 5 10 15

<210> 1522  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1522  
Ala Ser Thr Thr Thr Asn Tyr Thr  
1 5

<210> 1523  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1523  
Ala Ser Thr Thr Thr Asn Tyr Thr  
1 5

<210> 1524  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1524

Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys  
1 5 10 15

<210> 1525

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1525

Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu  
1 5 10 15

Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu  
20 25 30

Arg Tyr Leu Lys Asp Gln  
35

<210> 1526

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1526

Arg Gly Pro Gly Arg Ala Phe Val Thr Ile  
1 5 10

<210> 1527

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1527

Phe Phe Gly

1

<210> 1528

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1528

Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln

1

5

10

15

Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu

20

25

30

Trp Asn Trp Phe

35

<210> 1529

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1529

Thr Gln

1

<210> 1530

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1530

Trp His Trp Leu Gln Leu

1

5

<210> 1531

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1531

Gly Pro Gly Ala Gly

1

5

<210> 1532

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1532

His Gly

1

<210> 1533

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1533

Phe Val Phe Leu Met  
1 5

<210> 1534  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1534  
Thr Ser Lys  
1

<210> 1535  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1535  
Lys His Gly  
1

<210> 1536  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1536  
Lys Asn Arg Trp Glu Asp Pro Gly Lys Gln Leu Tyr Asn Val Glu Ala  
1 5 10 15

<210> 1537  
<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1537

Leu Arg Ala His Ala Val Asp Val Asn Gly  
1 5 10

<210> 1538

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1538

Trp Ser Lys Met Asp Gln Leu Ala Lys Glu Leu Thr Ala Glu  
1 5 10

<210> 1539

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1539

Thr Pro Arg Lys  
1

<210> 1540

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide



<400> 1540

Gly Glu Leu Gln Asn Gln Leu Ile Arg Lys Ser Asn  
1 5 10

<210> 1541

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1541

Gly Glu Tyr Gln Lys Met Leu Asn Leu Arg Ala Glu Val Lys Lys Asn  
1 5 10 15

Ala

<210> 1542

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1542

Pro Phe Cys Asn Ala Phe Thr Gly Cys  
1 5

<210> 1543

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1543

Glu Lys Ala His Asp Gly Gly Arg

1

5

<210> 1544

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1544

Pro Phe Thr Arg Asn Tyr Tyr Val Arg Ala Val Leu His Leu  
1 5 10

<210> 1545

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1545

Ala Pro Arg Leu Pro Gln Cys Gln Gly Asp Asp Gln Glu Lys Cys Leu  
1 5 10 15

Cys Asn Lys Asp Glu Cys Pro Pro Gly Gln Cys Arg Phe Pro Arg Gly  
20 25 30

Asp Ala Asp Pro Tyr Cys Glu  
35

<210> 1546

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1546

Lys Gly Asp Glu Glu Ser Leu Ala

1

5

<210> 1547

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1547

Trp Ala Gly Gly Asp Ala Ser Gly Glu

1

5

<210> 1548

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1548

Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp

1

5

10

15

Leu Lys Tyr Tyr

20

<210> 1549

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1549

Thr Lys Arg Arg Ala Ile Gly Phe Lys Lys Leu Ala Glu Ala Val Lys

1

5

10

15

Cys

<210> 1550  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1550  
Ser Ile Ile Asn Phe Glu Lys Leu  
1 5

<210> 1551  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1551  
Phe Gln Val Val Cys Gly  
1 5

<210> 1552  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1552  
Ala Arg Met Ala Pro Glu  
1 5

<210> 1553  
<211> 4  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1553

Gly Gln Pro Arg

1

<210> 1554

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1554

Thr Val Leu

1

<210> 1555

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1555

Leu Leu Ser Lys Arg Gly His Cys Pro Arg Ile Leu Phe Arg Cys Pro

1

5

10

15

Leu Ser Asn Pro Ser Asn Lys Cys Trp Arg Asp Tyr Asp Cys Pro Gly

20

25

30

Val Lys Lys Cys Cys Glu Gly Phe Cys Gly Lys Asp Cys Leu Tyr Pro

35

40

45

Lys

<210> 1556  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1556  
Gly Phe Asp Leu Asn Gly Gly Gly Val Gly  
1 5 10

<210> 1557  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1557  
Ala Val Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys Met Gln  
1 5 10 15

Thr Asp

<210> 1558  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1558  
Thr Lys Pro Arg  
1

<210> 1559  
<211> 11  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1559

Tyr Leu Asn Phe Thr Pro Asn Trp Gly Thr Tyr  
1 5 10

<210> 1560

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1560

Asp Leu Trp Gln Lys  
1 5

<210> 1561

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1561

Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly  
1 5 10 15

Asp

<210> 1562

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1562

Ala Pro Arg Leu Pro Gln Cys Gln Gly Asp Gln Glu Lys Cys Leu Cys  
1 5 10 15

Asn Lys Asp Glu Cys Pro Pro Gly Gln Cys Arg Phe Pro Arg Gly Asp  
20 25 30

Ala Asp Pro Tyr Cys Glu Asp  
35

<210> 1563

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1563

Thr Lys Pro Arg  
1

<210> 1564

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1564

Glu Glu Val Val Ala Cys  
1 5

<210> 1565

<211> 4

<212> PRT

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1565  
Ser Asp Lys Pro  
1

<210> 1566  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1566  
Arg Phe Trp Ile Asn Lys  
1 5

<210> 1567  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1567  
Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly  
1 5 10

<210> 1568  
<211> 1  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1568  
Leu  
1

<210> 1569  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1569  
Asp Asp Asp Asp Asp  
1 5

<210> 1570  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1570  
Asp Asp Asp Asp Asp Asp  
1 5

<210> 1571  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1571  
Asn Pro Asn Ala Asn Pro Asn Ala  
1 5

<210> 1572  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1572

Val Ala Ile Thr Val Leu Val Lys

1

5

<210> 1573

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1573

Val Gly Val Arg Val Arg

1

5

<210> 1574

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1574

Val Ile His Ser

1

<210> 1575

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 1575

Val Pro Asp Pro Arg  
1 5

<210> 1576  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1576  
Val Thr Cys Gly  
1

<210> 1577  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1577  
Arg Ser Arg  
1

<210> 1578  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1578  
Ser Ala Lys Leu Cys Pro Gly Gly Asn Cys Val  
1 5 10

<210> 1579  
<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1579

Asp His Ala Arg Trp Lys

1

5

<210> 1580

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1580

Pro Gln Asp Pro Gln Asp Leu

1

5

<210> 1581

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1581

Gln His Phe Arg Trp Gly

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<210> 1582

<211> 19

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1582

Asn Gln Glu Gln Val Ser Pro Leu Thr Leu Leu Lys Leu Gly Asn Gln  
1 5 10 15

Glu Pro Gly

<210> 1583

<211> 20

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1583

Leu Ser Ala Leu Ser Leu Asp Glu Pro Phe Ile Gln Lys Asp Val Glu  
1 5 10 15

Leu Arg Ile Met  
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<210> 1584

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1584

Ala Pro Glu Ala Gln Val Ser Val Gln Pro Asn Phe Gln Gln Asp  
1 5 10 15

<210> 1585

<211> 27

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1585

Glu Tyr Gly Gly Thr Lys Val Leu Asp Asp Lys Asp Tyr Phe Leu Phe  
1 5 10 15

Arg Asp Gly Asp Ile Leu Gly Lys Tyr Val Asp  
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<210> 1586

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

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<400> 1586

Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile  
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<210> 1587

<211> 24

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1587

Ser Gln Gln Ser Ser Ser Tyr Gly Gln Gln Ser Glu Lys Pro Tyr Gln  
1 5 10 15

Cys Asp Phe Lys Asp Cys Glu Arg  
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<210> 1588

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
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<400> 1588

Ala Thr Glu Ser Ile Ala Tyr Leu Ala Pro Pro Tyr Ala Phe Arg  
1 5 10 15

<210> 1589

<211> 16

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1589

Lys Arg Lys Arg Ser Glu Met Leu Phe Arg Gly Arg Arg Ala Ser Gln  
1 5 10 15

<210> 1590

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1590

Val Ser His Pro Tyr Ser Gln His Leu Glu Gly Lys Gly  
1 5 10

<210> 1591

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1591

Ala Leu Thr Asp Phe Phe Arg  
1 5



<210> 1592  
<211> 20  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
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<400> 1592  
Gln Ala Ile Gly Leu Met Gly Tyr Arg Leu Ser Pro Gln Thr Leu Thr  
1 5 10 15  
Thr Ile Val Lys  
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<210> 1593  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1593  
Met Gly Phe Asn Ala Phe Lys Glu Leu Trp Ala Ala Leu Asn Ala Trp  
1 5 10 15  
Lys

<210> 1594  
<211> 16  
<212> PRT  
<213> Artificial Sequence

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<400> 1594  
Glu Val Gln Leu Val Glu Ser Gly Val Gly Leu Val Gln Pro Gly Asp  
1 5 10 15

<210> 1595  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1595

Glu Leu Asp Ala Lys Ile Pro Ser Thr Gly Asp Ala Thr Glu Trp Arg  
1 5 10 15

Asn

<210> 1596  
<211> 20  
<212> PRT  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1596

Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly  
1 5 10 15

Val Thr Ser Ala  
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<210> 1597  
<211> 20  
<212> PRT  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1597

Gly Lys Glu Ile Leu Val Gly Asp Val Gly Gln Thr Val Asp Asp Pro  
1 5 10 15

Tyr Ala Thr Phe

<210> 1598  
 <211> 15  
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<400> 1598  
 Glu Leu Ser Leu Ala Gly Asn Glu Leu Gly Asp Glu Gly Ala Arg  
 1 5 10 15

<210> 1599  
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 <223> Description of Artificial Sequence: Synthetic  
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<400> 1599  
 Met Phe Ile Val Asn Thr Asn Val Pro Arg Ala Ser Val Pro Asp Gly  
 1 5 10 15  
 Phe Leu Ser Glu Leu Thr  
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<210> 1600  
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<400> 1600  
 Phe Gly Ser Phe Phe Thr Leu Asn Leu Phe Ile Gly Ile Ile Ile Asp  
 1 5 10 15  
 Asn Phe Trp Gln Gln Lys Lys Lys Leu Gly Gly Lys Asp Ile Phe Met

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Thr Glu Glu  
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&lt;210&gt; 1601

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1601

Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Phe Arg Gly  
1 5 10 15

Glu Glu Gly Asp Pro Gly Leu Pro Gly Ala Ala  
20 25

&lt;210&gt; 1602

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Peptide

&lt;400&gt; 1602

Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Gly His Leu Lys Thr  
1 5 10 15

His Thr Arg Thr His  
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&lt;210&gt; 1603

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
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<400> 1603

His Val Ser Ser Glu Ala Phe Arg Met Cys Asp Val Cys Leu Glu  
1 5 10 15

<210> 1604

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1604

Pro His Ser Arg Asn  
1 5

<210> 1605

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1605

Pro His Ser Cys Asn  
1 5

<210> 1606

<211> 28

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1606

Met Gly Pro Gly Ala Pro Phe Ala Arg Val Gly Trp Pro Leu Pro Leu  
1 5 10 15

Leu Val Val Met Ala Gly Val Ala Pro Val Trp Ala

<210> 1607  
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 <212> PRT  
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 <223> Description of Artificial Sequence: Synthetic  
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<400> 1607  
 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val  
 1 5 10 15

<210> 1608  
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<400> 1608  
 Cys Ser Leu Pro Gly Ser Ala Ala Ala  
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<210> 1609  
 <211> 15  
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<400> 1609  
 Arg Gly Leu Lys Arg Gln Ser Asp Glu Arg Lys Arg Asp Arg Glu  
 1 5 10 15

<210> 1610  
 <211> 57  
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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1610

Gly Arg Ser His Met Val Leu Asn Ser Ala Leu Glu Gly Ala Arg Gly  
1 5 10 15

Gly Pro Gly Gly Glu Glu Ile Pro Glu Arg Phe Ser Ile Pro Glu Leu  
20 25 30

Gln Trp Met Leu Ser Asn Ala Glu Leu Ala Pro Val Gln Ala Asp Glu  
35 40 45

Pro Pro Gln Ser Arg Met Asp Leu Val  
50 55

<210> 1611

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1611

Gln Ala Arg Ala Val Gly Leu Ala Gly Thr Ser Arg Ala Phe Leu Ser  
1 5 10 15

Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala Asp Arg Ala  
20 25 30

Ala Val Met  
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<210> 1612

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1612

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val  
1 5 10 15

<210> 1613

<211> 29

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1613

Leu Arg Asp Leu Val Ser Tyr Cys Arg Ala Arg Gly Lys Gly Arg Glu  
1 5 10 15  
Arg Met Asn Gly Thr Arg Lys Gly His Leu Leu Tyr Met  
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<210> 1614

<211> 33

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1614

Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg  
1 5 10 15

Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met  
20 25 30

Trp

<210> 1615

<211> 30

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1615

Asp Val Glu Pro Leu Leu Gly Phe Leu Ser Pro Lys Ser Gly Gln Glu  
1 5 10 15

Asn Glu Val Asp Asp Phe Pro Tyr Lys Gly Gln Gly Glu Leu  
20 25 30

<210> 1616

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1616

Phe Cys Lys Cys Arg Leu Glu Pro Met Lys Ala Thr Cys Asp Ile Ser  
1 5 10 15

Glu Cys Pro Glu  
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<210> 1617

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1617

Lys Ser His Gly Arg Thr Gln Asn Pro Val Val His Phe Phe Lys Asn  
1 5 10 15

Ile Val Thr Pro  
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